Master List of New Proposed Substances.pdf

Table of Contents

Read Me 1

Appendix A-I. Proposed New Substances for Which Emissions Must Be Quantified 3

Appendix A-II. Proposed New Substances for Which Production, Use, or Other Presence Must be Reported 42

Appendix A-III. Proposed New Substances Which Need Not Be Reported Unless Manufactured By the Facility 43

Substances that Have Been Reviewed, which are Not Currently Proposed for Inclusion 48

Notes to Appendix A 70

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

CARB requirements, by statute (Health & Safety Code Section 44300)

The AB 2588 Air Toxics "Hot Spots" Program (Statute; Health and Safety Code (H&SC) Sections 44300) requires CARB to compile and maintain a list of substances for assessing toxic air pollutants. In our assessment, we consider specific international, national, state, and other lists of chemicals explicitly referenced in the Statute, as well as under our own CARB authority.

There are seven sources from which the chemical substances are required to be considered for inclusion on the Hot Spots list.

(1) CARB's Toxic Air Contaminants (TACs)
(2) US EPA Hazardous Air Pollutants (HAPs)
(3) International Agency for Research on Cancer (IARC)
(4) Proposition 65
(5) National Toxicology Program (NTP)
(6) Hazard Evaluation System and Information Service (HESIS)
(7) Explicit provision of CARB authority

By statute, CARB is required to list all of the chemical substances found in the list above in Appendix A of the EICG, unless the substance meets the following criteria:

(1) No evidence exists that it has been detected in the air
(2) The substance is not manufactured or used in California

CARB has divided the list into three appendices as described here

A-I are substances for which emissions are required to be quantified
A-II are substances for which production, use, or other presence must be reported
A-III are substances which need not be reported unless manufactured by the facility

To facilitate review of the proposed new substances, CARB has provided flags for several categories these chemicals may fall into as follows:

Carcinogens
Developmental and reproductive toxicants (DART)
Pesticides
Metals
Other inorganics
Pharmaceuticals
Neurotoxins

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Additional information

- Over the past decade, many new chemical substances have emerged. In addition, evidence from various toxicity studies have given rise to potential public health concerns. In particular, several hundred new substances were added to IARC's list.
- Office of Environmental Health Hazard Assessment (OEHHA) uses toxic emission data reported under AB2588 to help identify and prioritize chemical substances to develop cancer potency values or reference exposure limits. Therefore, the chemical substance list is not limited to only chemical substances that have been given an approved health value by OEHHA.
- AB2588's EICG requires all emissions that are routine and predictable to be reported, including not only releases from stacks and ducts, but all types of fugitive releases as well.

Emerging chemicals/CARB authority

During the process of identifying substances of concern for public health, CARB is made aware of new emerging chemicals that are highly likely to pose health risk but have not gone through the full process of chemical identification by the six other sources listed in H&SC Section 44300. An example of these chemicals are perfluorohexane sulfonate (PFHxS) and perfluorohexonic acid (PFHxA), which are chemicals that are very similar to perfluorooctanoic acid (PFOA), and perfluorooctane sulfonate (PFOS). These chemicals are all comparable to one another in terms of toxicity, but only PFOA & PFOS have been officially approved by these lists.

For these emerging chemicals, CARB has identified a subset of chemicals that based on existing information, are highly likely to pose a threat to public health, have the potential to become airborne, and may be manufactured or used in California. While there are many potential sources that could be used to draw chemicals from, CARB has limited this first-round analysis to only include chemicals identified from the US EPA and the Organization for Economic Co-operation and Development, and the Biomonitoring California lists.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-1		Individual	630206	1,1,1,2-Tetrachloroethane			3	4			2B	cancer, neurotoxin	Manufacturing of solvent, Insecticide, bleaches, paints; reagent
A-2		Individual	(87616)	1,2,3 Trichlorobenzene (See Chlorobenzenes)		2*					7		Trichlorobenzenes /were formerly/ used in some pesticides, and are used as dye carriers, in dielectric fluids, as an organic intermediate and a chemical manufacturing solvent, in lubricants, and as a heat-transfer medium. These are small and decreasing markets.
A-3		Individual	96184	1,2,3-trichloropropane			3	4		6*		2A	cancer	1,2,3-Trichloropropane is used to make other chemicals. At one time it was used as a solvent and paint remover. 1,2,3-Trichloropropane exists as an impurity in some soil fumigants.
A-4		Individual	38571732	1,2,3-Tris(chloromethoxy)propane							7			Experimental curing agent for epoxy resins
A-5		Individual	119642	1,2,3,4-Tetrahydronaphthalene		2*								
A-6		Individual	99569	1,2-Diamino-4-nitrobenzene (see 4-Nitro-o-Phenylenediamine)							7			Hair dye; chelating agent for gas chromatography; colorimetric reagent; coloring agent
A-7		Individual	540590 156592 156605	1,2-Dichloroethene {1,2-dichloroethylene} {DCE}						6			neurotoxin	Limited use as solvents for waxes, resins and chemical intermediates; degreasing agent; vapor degreasing, aerosol cleaning
A-8		Individual	96231	1,3-Dichloro-2-propanol			3	4				2B	cancer	Solvent and in the manufacture of some paints, lacquers, and photographic materials; intermediate in the production of epichlorohydrin.
A-9		Individual	75321209	1,3-Dinitropyrene			3	4				2B	cancer	No evidence has been used for purposes other than laboratory applications
A-10		Individual	5307142	1,4-Diamino-2-nitrobenzene							7			Hair/fur dye
A-11		Individual	89612	1,4-Dichloro-2-nitrobenzene (see Chloronitrobenzenes)			3*					2B	cancer	Used as an intermediate for pigments, pesticides and UV absorbents in closed systems
A-12		Isocyanates	(3173726)	1,5-Naphthalene diisocyanate (see Isocyanates: diisocyanates)							7			Plastic material and resin manufacturing; automotive elastomeric components
A-13		Individual	109706	1-Bromo-3-chloropropane			3*				7			Chemical intermediate; organic synthesis, pharmaceuticals, etc.;
A-14		Individual	106945	1-Bromopropane (see n-Propyl Bromide)			3	4	5	6		2B	cancer, DART, neurotoxin	Solvent for fats, waxes and resins; intermediate in synthesis of pharmaceuticals, insecticides and other compounds; in spray adhesives; degreaser; cleaner for metal and precision electronic components.
A-15		Individual	98566	1-Chloro-4-(trifluoromethyl)benzene {PCBTF}						6			neurotoxin	Autobody coatings, repair and cleaning, rust prevention
A-16		Individual	90120 78900944 1321944	1-Methylnaphthalene							7		pesticide†	Methylnaphthalenes are used to make other chemicals such as dyes and resins. These chemicals are found in cigarette smoke, wood smoke, engine exhaust, tar and asphalt. They can be found at landfills and hazardous waste sites.
A-17		Individual	86884	1-Naphthylthiourea							7		pesticide†	known Pesticide use
A-18		Individual	57018527	1-tert-Butoxypropan-2-ol {Propylene glycol t-butyl ether}						6				Solvent; used in surface cleaning products; inks; adhesives; ag/electronic/cosmetic/textile products
A-19		Individual	15721025	2,2',5,5'-Tetrachlorobenzidine							7			No use information
A-20		Individual	(3296900)	2,2-Bis(bromomethyl)propane-1,3-diol (See Brominated and Chlorinated Flame Retardants)			3	4	5			2B	cancer	Reactive flame retardant used primarily in unsaturated polyester resins and polyurethane foams.
A-21		Individual	96048	2,3-Heptanedione							7			2,3-Pentanedione is used as a food flavoring. The use of 2,3-pentanedione as a butter flavoring has increased recently to replace the use of diacetyl, which causes lung problems (trouble breathing, bronchitis) in food production workers.
A-22		Individual	3848246	2,3-Hexanedione							7			Food/fragrance additive

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-23		Individual	600146 1341453	2,3-Pentanedione							7			Food/fragrance additive
A-24		Individual	136323	2,4,5-Trichlorophenol sodium salt							7		pesticide†	known Pesticide use
A-25		Individual	137177	2,4,5-Trimethylaniline and its strong acid salts				4					cancer	Used in the manufacturing of dyes
A-26		Individual	118796	2,4,6-Tribromophenol							7			Fungicide, a wood preservative, and an intermediate in the preparation of flame retardants.
A-27		Individual	634935	2,4,6-Trichloroaniline		2*					7			Lab chemical; chemical intermediate
A-28		Individual	88051	2,4,6-Trimethylaniline							7			Used in the manufacturing of dyes
A-29		Individual	(615587)	2,4-Dibromophenol (See Brominated and Chlorinated Flame Retardants)							7			Flame retardant. Fire prevention materials, or additives/coatings to prevent flammability in paints, textiles, plastics, etc.
A-30		Individual	611063	2,4-Dichloro-1-nitrobenzene			3*					2B	cancer	Chemical intermediate
A-31	e	Individual	94757	2,4-Dichlorophenoxyacetic acid {2,4-D}	1	2	3					2B	cancer, pesticide†	It is a systemic herbicide which selectively kills most broadleaf weeds by causing uncontrolled growth in them, but leaves most grasses such as cereals, lawn turf, and grassland relatively unaffected. 2,4-D is one of the oldest and most widely available herbicides and defoliants in the world, having been commercially available since 1945, and is now produced by many chemical companies since the patent on it has long since expired. It can be found in numerous commercial lawn herbicide mixtures, and is widely used as a weedkiller on cereal crops, pastures, and orchards. Over 1,500 herbicide products contain 2,4-D as an active ingredient.
A-32		Individual	142836	2,4-Hexadienal			3					2B	cancer	Flavouring agent, chemical intermediate for organic synthetic reactions, sorbic acid, dyes, pharmaceuticals, steel inhibitors, polymers; fumigant;
A-33		Individual	95681	2,4-Xylidine							7		neurotoxin	Used as an intermediate for photographic chemicals, pesticides, dyes and pharamceuticals
A-34		Individual	95705	2,5-Diaminotoluene							7			Used in the manufacturing of dyes
A-35		Individual	110134	2,5-Hexanedione				4					DART, neurotoxin	Synthesis of isocarboxazid, rolgamidine, and mopidralazine.
A-36		Individual	95783	2,5-Xylidine							7		neurotoxin	Chem intermediate for dyes
A-37		Individual	609201	2,6-Dichloro-para-phenylenediamine							7		pesticide†	2,6-Dichloro-p-phenylenediamine is an intermediate used in dye and resin manufacture. It is a metabolite of the fungicide Dicloran (2,6-dichloro-4-nitroaniline), and has been detected in soil.
A-38		Individual	1456286	2,6-Dimethyl-N-nitrosomorpholine				4					cancer	Can form in certain industrial envionments such as rubber factories or machine workshops;
A-39		Individual	95852	2-Amino-4-chlorophenol			3*					2B	cancer	Colorant/dye
A-40		Individual	99570	2-Amino-4-nitrophenol							7			Production of mordant and acid dyes
A-41		Individual	121880	2-Amino-5-nitrophenol							7			Production of mordant and acid dyes
A-42		Individual	153786	2-Aminofluorene				4					cancer	Research chemical
A-43		Individual	75263	2-Bromopropane				4					DART	Used in the synthesis of pharmaceuticals, dyes and other organics
A-44		Individual	598787	2-Chloropropionic acid				4					DART	Intermediate for herbicides
A-45		Individual	103117	2-Ethylhexyl acrylate							7			Monomer for plastics, coatings, paper treatment; water-based paints;
A-46		Individual	149304	2-Mercaptobenzothiazole			3	4				2A	cancer	Fungicide; vulcanization accelerator for rubber; corrosion inhibitor; added to polyether polymers; vet medication;

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-47	e	Individual	(111966)	2-Methoxyethyl ether (see Glycol ethers: Diethylene glycol dimethyl ether)	1	2				6			
A-48		Individual	693981	2-Methylimidazole			3	4			2B	cancer	Mfg pharamaceuticals, photgraphic chemicals, dyes, pigments, ag chemicals and rubber; Epoxy resin systems for semiconductors; component of polymers
A-49		Individual	91236	2-Nitroanisole			3				2B	cancer	used primarily as a precursor to o-anisidine, which is prepared by direct nitro-reduction. o-Anisidine is used extensively in the synthesis of azo dyes either directly after being converted to a diazonium salt or as a precursor for the preparation of dianisidine, which is diazotized and coupled. It has also been used as an intermediate for various pharmaceuticals.
A-50		Individual	14047097	3,3',4,4'-tetrachloroazobenzene			3*				2A	cancer	3,3',4,4'-Tetrachloroazobenzene (TCAB) is not commercially manufactured but is formed as an unwanted by-product in the manufacture of 3,4-dichloroaniline and its herbicidal derivatives Propanil, Linuron, and Diuron. It occurs from the degradation of chloroanilide herbicides (acylanilides, phenylcarbamates, and phenylureas) in soil by peroxide-producing microorganisms; and is formed by the photolysis and biolysis of 3,4-dichloroaniline.
A-51		Individual	612839	3,3'-Dichlorobenzidine dihydrochloride				4	5			cancer	Used in pigments/dyes/coloring
A-52		Individual	91930	3,3'-Dimethoxybenzidine-4,4'-diisocyanate (see isocyanates-diisocyanates)							7		Polymers and adhesive systems
A-53		Individual	105735715	3,7-Dinitrofluoranthene			3	4			2B	cancer	Laboratory applications
A-54		Individual	22506532	3,9-Dinitrofluoranthene			3	4			2B	cancer	Laboratory applications
A-55		Individual	77439760	3-Chloro-4-(dichloromethyl)-5-hydroxy-2(5H)-furanone			3	4			2B	cancer	Laboratory applications
A-56		Individual	96242	3-Monochloro-1,2-propanediol			3	4			2B	cancer, neurotoxin	Chlorohydrin; used to lower the freezing-point of dynamite and in the manufacture of dye intermediates. 3-MCPD is one of the few chemosterilants that has been commercialized for rodent control
A-57	e	Individual	101688	4-4'-Methylene disphenyl diisocyanate {4,4'-diphenylmethane diisocyanate} {4,4'-MDI} (See Isocyanates: Methylene diphenyl diisocyanate)	1	2				6	7		
A-58		Individual	41481667	4,4′-Sulfonylbis[2-(2-propen-1-yl)phenol] {TGSA}							7		See Bisphenol-related chemicals note on Bisphenol A. Developer for thermal paper.
A-59		Individual	13552448	4,4'-Methylenedianiline dihydrochloride				4	5			cancer	Research chemical; Closed system intermediate in production of spandex fibers
A-60		Individual	119346	4-Amino-2-nitrophenol				4				cancer	Dyes; etching of copper plates
A-61		Individual	100005	4-Chloronitrobenzene			3*				2B	cancer	Intermediate, especially for dyes; manufacture of p-nitrophenol from which parathion is made; agricultural chemicals; rubber chemicals
A-62		Individual	1689823	4-Hydroxyazobenzene							7		Dyes
A-63		Individual	150765	4-Methoxyphenol {1-Hyroxy-4-methoxybenzene} {Hydroquinone monomethyl ether}						6		neurotoxin	artificial nail products
A-64		Individual	822366	4-Methylimidazole			3	4			2B	cancer, neurotoxin	used to make certain pharmaceuticals, photographic chemicals, dyes and pigments, cleaning and agricultural chemicals, and rubber products. 4-MEI is formed during the production of certain caramel coloring agents used in many food and drink products
A-65		Individual	(99569)	4-Nitro-o-Phenylenediamine (See 1,2-Diamino-4-nitrobenzene)							7		Hair dye; chelating agent for gas chromatography; colorimetric reagent; coloring agent

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-66		Individual	(121733)	3-Nitrochlorobenzene (See Chloronitrobenzenes: m-Chloronitrobenzene)		2*				7			Chemical intermediate for dyes
A-67		Individual	140669	4-t-Octylphenol						7			Plasticizers, fuel oil stabilizer, manufacturing of surfactants; intermediate for resins, fungicides, bactericides, dyes, adhesives, rubber.
A-68		Individual	3795888	5-(Morpholinomethyl)-3-[(5-nitrofurfurylidene)-amino]-2-oxazolidinone			3	4			2B	cancer	[TBD]
A-69		Individual	95794	5-Chloro-ortho-toluidine and its strong acid salts				4				cancer	Dyes
A-70		Individual	99558	5-Nitro-ortho-toluidine						7			Pigments/dyes
A-71		Individual	81152	5-tert-butyl-2,4,6-trinitro-m-xylene						7			Fragrance in perfumes and household products
A-72		Individual	602608	9-Nitroanthracene						7			[TBD]
A-73		Individual	30560191	Acephate						7		pesticide†, neurotoxin	known Pesticide use
A-74		Individual	105577	Acetal		2*				7		neurotoxin	Major flavoring component of distillated beverages, especially malt whisky and sherry
A-75		Individual	64197	Acetic acid		2*				7		neurotoxin	Acetic acid is widely used to make other chemicals, for etching metals, as a solvent and in chemical laboratory analysis. Acetic acid is used for fabric dyeing, production of nylon and in leather tanning. Common vinegar contains about 6% acetic acid. It is used in food canning as an additive or flavoring and in medicines. Acetic acid is also used as an herbicide for broadleaf weeds and weed grasses. Acetic acid can be formed from the biodegradation of petroleum chemicals in groundwater.
A-76		Individual	108247	Acetic anhydride		2*				7			Used to make aspirin, reagent in organic synthesis pharmaceutical
A-77		Individual	102012	Acetoacetanilide		2*				7			Dye, used in medicine, paints, pesticides, organic synthesis
A-78		Individual	[TBD] XXXX	Acrylonitrile-butadiene-styrene copolymers (must report the individual monomer components)						7			injection molded and extruded make it useful in manufacturing products such as drain-waste-vent pipe systems, musical instruments, golf club heads, automotive trim components, automotive bumper bars, medical devices for blood access, enclosures for electrical and electronic assemblies, protective headgear, whitewater canoes, buffer edging for furniture and joinery panels, luggage and protective carrying cases, small kitchen appliances, and toys, including Lego and Kre-O bricks, household and consumer goods, keyboard keycaps and in 3D printing.
A-79		Individual	111693	Adiponitrile		2*				7		neurotoxin	Intermediate in the manufacture of nylon
A-80		Individual	116063	Aldicarb						7		pesticide†	known Pesticide use
A-81		Individual	109751	Allyl cyanide		2*				7			Allyl cyanide may be used as an additive in propylene carbonate-based electrolytes for graphite anodes preventing exfoliation of the anode by film-forming.
A-82		Individual	57067	Allyl isothiocyanate						7			Flavoring agent; Pesticide; Fumigant; Ointments
A-83		Individual	2835394	Allyl isovalerate						7			Flavoring agent; Fragance in creams/lotions
A-84		Individual	98839	a-Methylstyrene			3	4			2B	cancer, neurotoxin	used as a co-monomer in a range of polymerisation processes to improve impact and heat resistance. Diverse range of products including perfumes, antioxidants, drying oils and lubricating oils.
A-85		Individual	33089611	Amitraz				4				DART, pesticide†, neurotoxin	known Pesticide use
A-86		Individual	142041	Aniline hydrochloride		2*		4		7		cancer	Dye and printing ink

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-87		Individual	118923	Anthranilic acid							7			Dyes, drugs, perfumes, pharmaceuticals
A-88		Individual	1912249	Atrazine				4					DART, pesticide†	known Pesticide use
A-89		Individual	86500	Azinphosmethyl							7		pesticide†	known Pesticide use
A-90		Individual	17804352	Benomyl				4					DART, pesticide†	known Pesticide use
A-91		Individual	741582	Bensulfide							7		pesticide†, neurotoxin	It is used on vegetable crops such as carrots, cucumbers, peppers, and melons and in cotton and turfgrass to control annual grasses such as bluegrass and crabgrass and broadleaf weeds. It is often applied before the weed seeds germinate (pre-emergence) in order to prevent them from germinating. Bensulide generally is applied to bare soil, before crops are planted. It is incorporated 1 to 2 inches deep in order for the control of grasses and broadleaf weeds in agricultural crops, residential grass lawns, and golf courses.
A-92		Individual	100527	Benzaldehyde		2*					7		neurotoxin	Flavoring agents, production of benzyl alcohol, fragrance in cosmetics/soaps/foods/drinks/perfumes
A-93		Individual	98113	Benzenesulfonic acid		2*					7			Benzensulfonic acid is commonly used as the active ingredient in laundry detergent used in clothes washing machines; In a diluted form, it is also used as a polymer remover stripping agent
A-94		Individual	100470	Benzonitrile		2*					7		neurotoxin	used as intermediate for rubber chemicals; solvent for nitrile rubber, specialty lacquers, and many resins and polymers, and for many anhydrous metallic salts.
A-95		Individual	119619	Benzophenone		2*	3	4			7	2B	cancer	used as a photo initiator in UV-curing applications[4] such as inks, imaging, and clear coatings in the printing industry. Benzophenone prevents ultraviolet (UV) light from damaging scents and colors in products such as perfumes and soaps. Benzophenone can also be added to plastic packaging as a UV blocker to prevent photo-degradation of the packaging polymers or its contents. Benzophenone is used as an additive in flavorings or perfumes for "sweet-woody-geranium-like notes.
A-96		Individual	131577	Benzophenone-3 {BP3} {Oxybenzone}							**7**			Photostabilizer and sunscreen; used in cosmetics, nail polishes and enamels.
A-97		Individual	100516	Benzyl alcohol		2*				6	7		neurotoxin	used as a bacteriostatic preservative at low concentration in intravenous medications, cosmetics, and topical drugs. The use of benzyl alcohol as a 5% solution has been approved by the U.S. FDA for the treatment of head lice in children older than six months and in adults.
A-98		Individual	82657043	Bifenthrin							7		pesticide†, neurotoxin	known Pesticide use
A-99		Individual	2386905	Bis(2,3-epoxycyclopentyl)ether							7			Epoxy resins
A-100		Individual	108601	Bis(2-chloro-1-methylethyl)ether, technical grade				4					cancer	Intermediate for dyes, resins, pharmaceuticals; solvent for fats, greases, paint/varnish removers, cleaning solns
A-101		Individual	111444	Bis(2-chloroethyl)ether		2*							pesticide†, neurotoxin	
A-102		Individual	56359	Bis(tributyltin) oxide {TBTO}							7			Fungicide/bactericide/molluscicide for cooling-water treatment, hard-surface disinfectants, wood preservation and laundry sanitizers

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-103		Individual	80057	Bisphenol A {BPA}						6				Bisphenol-related chemicals: in general these are persistent, bioaccumulative and toxic (PBT) chemicals, and have been linked to cancer, endocrine disruption, and organ system toxicity. Bisphenol-related chemicals have wide uses in making household products, such as sunglasses, food packaging, beverage and other can lining, laundry and cleaning products, in order to protect the products and the perfumes from UV light damage. Some are used in making cosmetics, lotions, and nail care products. Also used in epoxy resins. There are also uses in the paper and printing sectors, such as for thermal receipts and other paper coating and printing ink uses. Fugitive dust from operations using the powders is a potential concern for exposure.
A-104		Individual	1675543	Bisphenol A diglycidyl ether {BADGE} {Araldite}						6			DART	See Bisphenol-related chemicals Uses note on Bisphenol A.
A-105		Individual	1478611	Bisphenol AF {BPAF} {Hexafluorobisphenol A}							7			See Bisphenol-related chemicals Uses note on Bisphenol A.
A-106		Individual	77407	Bisphenol B {BPB}							7			See Bisphenol-related chemicals Uses note on Bisphenol A.
A-107		Individual	620928	Bisphenol F {BPF}							7			See Bisphenol-related chemicals Uses note on Bisphenol A.
A-108		Individual	2095036	Bisphenol F diglycidyl ether {BFDGE}							7			See Bisphenol-related chemicals Uses note on Bisphenol A.
A-109		Individual	80091	Bisphenol S {BPS}							7			See Bisphenol-related chemicals Uses note on Bisphenol A.
A-110		Individual	7637072 13319750 (dihydrate)	Boron trifluoride complexes						6			other inorganic	Catalyst in organic syntheses; alkylation reactions; cleavage of ethers to alcohols; olefin polymerization; petroleum cracking and desulfurization; epoxy curing agents
A-111		Individual	53404196	Bromacil lithium salt				4					DART, pesticide†	Both bromacil and its lithium salt are used to control weeds and brush in nonagricultural areas including utility right-of-ways, railroads, electrical switching stations, and industrial yards.
A-112		Individual	108861	Bromobenzene		2*					7		neurotoxin	used for organic synthesis, especially in the production of the synthetic intermediate phenyl magnesium bromide (a Grignard reagent). Bromobenzene is also used as an additive to motor oils and as a crystallizing solvent.
A-113		Individual	5589968	Bromochloroacetic acid			3	4				2B	cancer	Used only in research
A-114		Individual	83463621	Bromochloroacetonitrile							7			Chemical by-products of chlorine disinfection of drinking water
A-115		Individual	71133147	Bromodichloroacetic acid				4					cancer	Chemical by-products of chlorine disinfection of drinking water
A-116		Individual	74964	Bromoethane				4					cancer, neurotoxin	Ethylation of gas; solvent in chemical and pharmaceutical industries; refrigerant
A-117		Individual	27497514	Bromonaphthalene		2*					7			Because of its high refractive index, 1-bromonaphthalene is used as an embedding agent in microscopy and for determining the refraction of crystals. The compound is also used as a precursor to various substituted derivatives of naphthalene.
A-118		Individual	1689992	Bromoxynil octanoate				4					DART, pesticide†	Herbicide for barley, field corn, flax, garlic, mint, oats, onions, popcorn, rye, seedling alfalfa, sorghum, triticale, wheat, forage grasses, grass for sod and seed protection and alfalfa in Conservation Reserve Program.
A-119		Individual	28407376	C.I. Direct Blue 218				4					cancer	Dyes
A-120		Individual	1563662	Carbofuran							7		pesticide†, neurotoxin	known Pesticide use
A-121		Individual	1333864	Carbon black			3	4				2B	cancer, other inorganic	Reinforcement of rubber, black pigment
A-122		Individual	75876	Chloral		2*	3	4			7	2A	cancer	Production of instecticides; Polyurethanes
A-123		Individual	10599903	Chloramine							7			Intermediate for hydrazine; added to municipal water supplies to control bacteria; bathroom/floor cleaner

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-124		Individual	107142	Chloroacetonitrile							7			Intermediate for cardiovasular drug guanethidine and insecticide fenoxycarb
A-125		Individual	1319864	Chloromethoxy Propyl Mercuric Acetamide							7		pesticide†	[TBD]
A-126		Individual	3165933	p-Chloro-o-toluidine Hydrochloride				4	5				cancer	Chemical intermediate for dye, insecticide; Cl Azoic coupling agent
A-127		Individual	1897456	Chlorothalonil			3	4				2B	cancer	Fungicide, bactericide, nematocide
A-128		Individual	106434	Chlorotoluene (p-)		2*					7			Solvent and intermediate for organic chemicals and dyes
A-129		Individual	75729	Chlorotrifluoromethane		2*					7			Dielectric & aerospace chemical; coolant; hardening of metals
A-130		Individual	2921882	Chlorppyrifos				4					DART, pesticide†, neurotoxin	known Pesticide use
A-131		Individual	1861321	Chlorthal-dimethyl							7		pesticide†	known Pesticide use
A-132		Individual	16065831	Chromium (III) compounds							7		metal	Plating, polishing, coating, engraving, and allied services
A-133		Individual	50293	Clofenotane {p,pDDT}			3					2A	cancer, neurotoxin	Insecticide
A-134		Individual	--	Coal dust							7			Mining and use of coal
A-135		Individual	12070121	Cobalt metal with tungsten carbide			3					2A	cancer, metal	Metal work
A-136		Individual	372098	Cyanoacetic acid		2*					7			Chemical intermediate
A-137		Individual	1134232	Cycloate				4					DART, pesticide†	known Pesticide use
A-138		Individual	294622	Cyclododecane							7			Intermediate for chemicals to make nylon, polyesters, oils, polyamides
A-139		Individual	108941	Cyclohexanone		2*					7		neurotoxin	96% is used in manufacture of nylon; Flavoring agent; solvent use for metal degreasing, cellulose acetate, waxes, fats, resins, rubber;
A-140		Individual	29965977	Cyclooctadienes		2*					7			A useful precursor to other organic compounds and serves as a ligand in organometallic chemistry.
A-141		Individual	27208373	Cyclopenta[cd]pyrene			3	4				2A	cancer	[TBD]
A-142		Individual	91178	Decahydronaphthalene		2*								Solvent for naphthalene, fats, resins, oils, waxes; used instead of turpentine in lacquers, shoe polishes, floor waxes. In motor fuel and lubricants. As patent fuel in stoves.
A-143		Individual	(541026)	Decamethylcyclopentasiloxane {D5} {Decamethyl-1,3,5,7,9,2,4,6,8,10-pentaoxapentasilecane} (See Cyclosiloxanes)						6	7			Dry cleaning and solvent alternative
A-144		Individual	1007289	Des-isopropyl atrazine				4					DART, pesticide†	Atrazine-desisopropyl is commonly used herbicide, which belongs to the class of triazines[1] and is found to be a metabolite of atrazine.
A-145		Individual	431038	Diacetyl						6			neurotoxin	Flavoring agent for buttery taste;
A-146		Individual	333415	Diazinon			3					2A	cancer, pesticide†, neurotoxin	known Pesticide use
A-147		Individual	136356	Diazoaminobenzene				4	5				cancer	Insecticide
A-148		Individual	224533	Dibenz[c,h]acridine			3					2B	cancer	Biochemical research
A-149		Individual	631641	Dibromoacetic acid			3	4				2B	cancer, neurotoxin	Chemical byproducts of chlorination of drinking water; used in research
A-150		Individual	3252435	Dibromoacetonitrile			3	4				2B	cancer	Anti-microbial in metalworking fluid; drinking water disinfection byproduct possibly
A-151		Individual	79436	Dichloroacetic acid			3	4				2B	cancer, neurotoxin	Intermediate, pharamaceuticals, agriculutral sector, fiber manufacture
A-152		Individual	3018120	Dichloroacetonitrile							7			Chemical byproducts of chlorination of drinking water
A-153		Individual	7572294	Dichloroacetylene							7		neurotoxin	By-product of the synthesis of vinylidene chloride or trichloroethylene
A-154		Individual	27134276	Dichloroaniline (mixed isomers)		2*								

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-155		Individual	62737	Dichlorvos {DDVP}							7		pesticide†, neurotoxin	Dichlorvos is used as an insecticide. It is also a degradation product of two other insecticides (naled and trichlorfon).
A-156		Individual	51338273	Diclofop methyl				4					DART, pesticide†, cancer	known Pesticide use
A-157		Individual	579668	Diethylaniline (2,6-)		2*					7			2,6-Diethylaniline is an intermediate for the manufacture of pesticides, dyestuffs, antioxidants, pharmaceuticals, synthetic resins, fragrances and other products.
A-158		Individual	111400	Diethylenetriamine						6				Medication; epoxy resins/curing agents; Decontimant agent DS2; intermediate for many processes
A-159		Individual	68515480 28553120	Diisononyl phthalate				4					cancer	Used in plastics
A-160		Individual	2973106	Diisopropyl sulfate			3	4				2B	cancer	Intermediate in the production of isopropanol
A-161		Individual	60515	Dimethoate							7		pesticide†, neurotoxin	Insecticide for deciduous fruits and nuts and commercial/industrial uses.
A-162		Individual	828002	Dimethoxane							7		pesticide†	Preservative for cutting oil, resin emulsions, water-based paints, cosmetics, inks. Antimicrobial agent
A-163		Individual	627930	Dimethyl Adipate						6				Plasticizer for cellulose type resins; finish remover
A-164		Individual	1119400	Dimethyl Glutarate {glutaric acid dimethyl ester}						6				Used as a flame retardant on Nylon 6 fibers and, in combination with guanidine and formaldehyde, to impart flame and crease resistance to cotton textiles. Increases fire resistance to cellulosic textiles, acrolein-grafted polyamide fibers and gamma-irradiated polyethylene. It is used as a lubricant additive, as a chemical intermediate in the production of organophosphorous pesticides and as an adhesive. A stabilizer in oil and plaster and, in combination with pyrocatechol, as a corrosion inhibitor on steel.
A-165		Individual	868859	Dimethyl hydrogen phosphite							7			Lubricant additive; flame retardant for nylon and other textiles; intermediate for pesticides and adhesives;
A-166		Individual	120616	Dimethyl terephthalate		2*					7			Use in resins, polyethylene terphtalate, elastomers, plasticizers, polymers
A-167		Individual	124403	Dimethylamine		2*					7			Acid gas absorbent, solvent antioxidants, manufacture of dimethylformamide and dimethylacetamide dyes, flotation agent, gasoline stabilizers, pharmaceuticals, textile chemicals, rubber accelerators, electroplating, dehairing agent, missile fuels, pesticide propellant, rocket propellants, surfactants, reagent for magnesium.
A-168		Individual	75605	Dimethylarsinic acid			3					2B	cancer, pesticide†	Herbicide; soil sterilant; chemical warfare; timber thinning. Multiple other plant uses.
A-169		Individual	58147	Dimethylhydrazine (1,1-)		2*	3	4	5			2B	cancer, neurotoxin	Fuel additive; chemical syntheiss; absorbent for acid gases; photography; plant growth control agent
A-170		Individual	99978	Dimethyl-p-toluidine			3	4		6		2B	cancer	Dental materials and bone cemets; industrial glues; intermediate for dyes and pesticides
A-171		Individual	(101257)	Dinitrosopentamethylenetetramine (See N,N'-Dinitrosopentamethylenetetramine)							7			
A-172		Individual	84753	Di-n-hexyl phthalate (DnHP)				4					DART	manufacture of plastisols that are used in manufacture of automobile parts/dip-molded products; added to PVC used in flooring, tarps, book covers; traffic cones, toys, gloves, shoes etc.
A-173		Individual	136458	Di-n-propyl isocinchomeronate (MGK Repellent 326)				4					cancer	Insect Repellent; skin/clothing, dog/cat

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-174		Individual	646060	Dioxolane (1,3-)		2*				7		neurotoxin	The primary uses for dioxolane are co-monomer for manufacture of polyacetals and other polymers, solvent for chemical reactions (including inorganic salts), stabilizer for halogenated organic solvents, and as a starting material or reagent for organic synthesis.
A-175		Individual	102089	Diphenyl thiourea		2*				7			Used as a primary or secondary vulcanization accelerator. It is used as an intermediate for the synthesis of dye and other organic compounds. It is used as an ore flotation agent.
A-176		Individual	122394	Diphenylamine		2*				7			Pesticide; manufacture of dyes; explosives;analytical chemistry; pharmaceuticals; storage preservation of apples; rubber antioxidants and accelerators
A-177		Individual	85007 34417680 2764729	Diquat Dibromide						7		pesticide†, neurotoxin	Non-selective contact herbicide, algicide, desiccant, and defoliant. Largest use is as a desiccant on potato crops.
A-178		Individual	138932	Disodium cyanodithioimidocarbonate				4				DART, other inorganic	Pesticide; antimicrobrial for air washer systems, industrial water cooling towers, evaporative condensers, heat exchangers, pulp and paper mills, secondary oil recovery injection water, and sugar mills.
A-179		Individual	330541	Diuron				4				cancer, pesticide†	known Pesticide use
A-180		Individual	115297	Endosulfan						7		pesticide†, neurotoxin	known Pesticide use
A-181		Individual	72208	Endrin				4				DART, pesticide†, neurotoxin	Used as an insecticide, as well as a rodenticide and piscicide. Endrin was manufactured as an emulsifiable solution known commercially as Endrex.
A-182		Individual	68038324 (Epikote 1055)	Epikote ®					6				Epoxy resins
A-183		Individual	25068386 (Resin 828)	Epon ®					6				Epoxy resins
A-184		Individual	67891752	Epoxidized olefins					6				[TBD]
A-185		Individual	13194484	Ethoprop				4				cancer, pesticide†, neurotoxin	known Pesticide use
A-186		Individual	141786	Ethyl Acetate					6			neurotoxin	artificial nail products
A-187		Individual	140885	Ethyl acrylate			3*				2B	cancer	Paint, flavoring agent, acylic resins, textiles/paper coatings, leather finishes
A-188		Individual	7085850	Ethyl Cyanocrylate					6				artificial nail products
A-189		Individual	759944	Ethyl dipropylthiocarbamate (Eptc)				4				DART, pesticide†, neurotoxin	known Pesticide use
A-190		Individual	56382	Ethyl parathion						7		pesticide†, neurotoxin	known Pesticide use
A-191		Individual	97632	Ethyl methacrylate					6				
A-192		Individual	103695	Ethylaniline (N-)		2*				7			Used as an explosive stabilizer and in dye stuff manufacturing as a cyclic intermediate.
A-193		Individual	578541	Ethylaniline (o-)		2*				7			Intermediate for pharmaceuticals, dyestuffs, pesticides, and other products.
A-194		Individual	420122	Ethylene sulfide						7		neurotoxin	Chemical intermediate; biocide
A-195		Individual	107153	Ethylenediamine		2*						pesticide†	
A-196		Individual	637923	Ethyl-tert-butyl ether				4				DART, neurotoxin	Gasoline additive
A-197		Individual	22224926	Fenamiphos						7		pesticide†, neurotoxin	known Pesticide use
A-198		Individual	66441234	Fenoxaprop ethyl				4				DART, pesticide†	Used as a postemergence control of annual and perennial grassy weeds

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-199		Individual	72490018	Fenoxycarb				4					cancer, pesticide†	Fenoxycarb is used as an agricultural insecticide outside the US. It is used as a fire-ant bait in homes in the US. Fenoxycarb was considered for voluntary cancellation in 2011.
A-200		Individual	51630581	Fenvalerate							7		pesticide†, neurotoxin	Used as an insecticide
A-201		Individual	69806504	Fluazifop butyl				4					DART, pesticide†	Highly selective post-emergence grass killer. It will control both annual and perennial grasses.
A-202		Individual	69409945	Fluvalinate				4					DART, pesticide†, neurotoxin	Tau-fluvalinate is a broad-range insecticide applied on plants such as ornamentals, vegetables, trees and vines. The largest outdoor uses of tau-fluvalinate are in nurseries. It also is used in empty beehives to control Varroa mites on bees. Residential uses are very limited, for example spot application to ant mounds.
A-203		Individual	75127	Formamide		2*					7		neurotoxin	Important intermediate in the chemical industry; used for producing heterocyclic compounds, pharmaceuticals, crop protection agents, fungicides, and pesticides; used as a solvent in the manufacture and processing of plastics; to produce formic acid; used to remove coating from copper conductors; used in the spinning of acrylonitrile copolymers; employed in the antistatic finishing of plastics or formation of conductive coatings on plastic particles.
A-204		Individual	64186	Formic Acid		2*				6	7		neurotoxin	Flavoring agent; pesticide; Fumigant; Hydraulic fracturing; Manufacture of fumigants, insecticides, refrigerants; solvents for perfumes; lacquers; electroplating; brewing (antiseptic); silvering glass; cellulose formate; ore flotation; vinyl resin plasticizers
A-205		Individual	39148248	Fosetyl-al							7		pesticide†	Bactericide, systemic fungicide. Preventive and curative activity against Oomycetes, Alternaria and Pennicillium on avocado, cacao, citrus, hops, ornamentals, pineapple, rubber, strawberries, fruit crops, tobacco, vegetable crops, and vines. Suppression of bacterial pathogens: fireblight (eawinia) on pome fruit, xanthomonas and on ornamentals.
A-206		Individual	98011	Furfural							7		neurotoxin	Flavoring agents; solvent extraction in petroleum refining; solvent to accelerate vulcanation; ingredient in resins; weed killer; fungicide;
A-207		Individual	98000	Furfuryl alcohol			3	4				2B	cancer, neurotoxin	Flavoring agents; solvent for cellulose ethers/esters, dyes, resins; missile fuel additive;
A-208		Individual	96480	gamma-Butyrolactone							7		neurotoxin	Flavoring agents; corrosion inhibitors; intermediates; paint/coating additives or removers; solvents;
A-209		Individual	548629	Gentian Violet (Crystal Violet)				4					cancer	Used as an antiseptic dye used to treat fungal infections of the skin (e.g., ringworm, athlete's foot). It also has weak antibacterial effects and may be used on minor cuts and scrapes to prevent infection
A-210		Individual	58826 453178 497096	Glyceraldehyde		2*					7			It plays role in the formation of advanced glycation end-products (AGEs), a deleterious accompaniment to ageing (biological info). No other use information, might be lab only?
A-211		Individual	106912	Glycidyl methacrylate							7			Acrylic/vinyl resins; hydrogel lenses
A-212		Individual	107222	Glyoxal		2*					7			Coated paper and textile finishes use large amounts of glyoxal as a crosslinker for starch-based formulations.
A-213		Individual	1071836	Glyphosate				4					cancer, pesticide†, neurotoxin	known Pesticide use
A-214		Individual	142825	Heptane						6			neurotoxin	Test fuel component; anesthetic; solvent; organic synthesis; research chemical

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-215		Individual	70304	Hexachlorophene							7		neurotoxin	Soaps; vet medicine; consumer products including cosmetics and germicidal preparations; disinfectant; not used much anymore
A-216		Individual	684162	Hexafluoroacetone				4					DART, neurotoxin	widely used in the synthesis of polymers, medicinals, textile coating, agriculture chemicals, and as a component of high-performance fluoropolymers.
A-217		Individual	100970	Hexamethylenetetramine							7			Food preservative; anti-infective agents; rubber; resins; adhesives/coatings; flame-retardent materials; pharmaceuticals; corrosion inhibitor, fuel tablets for camping; dyes
A-218		Individual	58935	Hydrochlorothiazide			3					2B	cancer, other inorganic, pharmaceutical, neurotoxin	Pharmaceutical
A-219		Individual	420042	Hydrogen Cyanamide							7		pesticide†, neurotoxin	Cyanamide is used as a plant growth regulator and budbreaking agent (Dormex) to compensate for the lack of frost and to improve the budbreak of grapes and other fruit crops in areas with mild winters. Cyanamide has a significant fungicidal and herbicidal potential and is used in pig farming to overcome sanitary problems related with the pig manure. Intermediate for many chemicals
A-220		Individual	7722841	Hydrogen peroxide (excluding 5% or less solutions)							7			Used as a bleaching or deodorizing agent in foods, textiles and personal care items. It is used in wastewater treatment, to make other chemicals and for chemical analysis. A form of hydrogen peroxide is used in rocket propulsion. Used in making wine and as a seed disinfectant. Used on indoor and outdoor crops and certain crops after harvesting to control fungi and bacteria.
A-221		Individual	35554440	Imazalil				4					cancer, pesticide†	Citrus fungicide; Used as a fungicide for cucumber; postharvest treatment of citrus, banana and other fruit to control storage decay; possible fumigan
A-222		Individual	50926119	Indium tin oxide			3					2B	cancer, metal	ITO can be used for many applications, such as flat-panel displays, smart windows, polymer-based electronics, thin film photovoltaics, glass doors of supermarket freezers, and architectural windows.
A-223		Individual	36734197	Iprodione				4					cancer, pesticide†	known Pesticide use
A-224		Individual	106638	Isobutyl acrylate		2*					7			Comonomer in acrylic surface coatings, an intermediate for the production of polymers and as the monomer in synthetic resin manufacture
A-225		Individual	97869	Isobutyl Methacrylate						6				artificial nail products
A-226		Individual	542563	Isobutyl nitrite				4					cancer	Intermediate in chemical syntheses; drug use
A-227		Individual	115117	Isobutylene		2*					7			Isobutylene is an important commercial chemical. It is used to make other chemicals, rubber, food packaging materials and supplements, the gasoline additive MTBE, aviation gasolines and resins. It also occurs in gas-powered engine exhaust.
A-228		Individual	4016142	isopropyl glycidyl ether						6			neurotoxin	Intermediate for synthesis of ethers/esters; reactive diluent for epoxy resins
A-229		Individual	9000388	Kava extract			3					2B	cancer, pharmaceutical	Pharmaceutical
A-230		Individual	143390890	Kresoxim-methyl				4					cancer, pesticide†	The product is applied as a spray (backpack sprayers or overhead booms) to control powdery mildew on the following greenhouse-grown ornamental crops: ageratum, dahlias, dianthus, dusty miller, gazania, geraniums, marigolds, pansies, portulaca, snapdragons, spirea, spengril, verbena, vinca, zinnia, poinsettias, roses, cut flowers, oak trees, and dogwood trees.
A-231		Individual	105748	Lauroyl peroxide							7			Bleaching agent, intermediate and drying agent for fats, oils, waxes, flour; polymerization agnet in plastics
A-232		Individual	--	Leather dust			3	4		6*		1	cancer	Leather working

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-233		Individual	330552	Linuron				4					DART, pesticide†	known Pesticide use
A-234		Individual	121755	Malathion				4					cancer, pesticide†, neurotoxin	6% is used in grain Profume fumigation, pesticide; known Pesticide use
A-235		Individual	542789	Malonaldehyde							7		neurotoxin	Research compound
A-236		Individual	77094112	MeIQ (2-Amino-3,4-dimethylimidazo[4,5-f]quinoline)			3	4				2B	cancer	No known commercial use
A-237		Individual	77500040	MeIQx (2-Amino-3,8-dimethylimidazo[4,5-f]quinoxaline)			3	4				2B	cancer	No known commercial use
A-238		Individual	108781	Melamine							7			Most used group of nitro-containing flame retardents; resins; leather tanning; organic syntheses; Mr. Clean magic eraser
A-239		Individual	102501	meta-Cresidine							7			Dyes, inks, pigments (former use, no others listed though)
A-240		Individual	137417	Metam potassium				4					cancer, pesticide†	known Pesticide use
A-241		Individual	137428	Metam sodium				4					cancer, DART, pesticide†	known Pesticide use
A-242		Individual	108452	meta-Phenylenediamine							7		neurotoxin	used in the preparation various polymers including aramid fibers, epoxy resins, wire enamel coatings and polyurea elastomers. Other uses for m-phenylenediamine include as an accelerator for adhesive resins, and as a component of dyes for leather and textiles
A-243		Individual	79414	methacrylic acid		2*				6	7			Methacrylic acid is used in some nail primers to help acrylic nails adhere to the nail plate. Mainly used in paints, adhesives, and leather treatment agents, methacrylic acid is also used as a raw material in the manufacture of ion-exchange resins
A-244		Individual	10265926	Methamidophos							7		pesticide†, neurotoxin	known Pesticide use
A-245		Individual	950378	Methidathion							7		pesticide†, neurotoxin	known Pesticide use
A-246		Individual	16752775	Methomyl							7		pesticide†, neurotoxin	known Pesticide use
A-247		Individual	96333	Methyl acrylate			3*					2B	cancer	Methyl acrylate is an important commercial chemical. It is used in the manufacture of leather finish resins, textile and paper coatings, plastic films, vitamin B1 and as a chemical intermediate.
A-248		Individual	(124583)	Methylarsonic acid (see Arsenic compounds (other than inorganic): Methylarsonic acid)			3					2B	cancer, pesticide†	known Pesticide use
A-249		Individual	598550	Methyl carbamate				4					cancer, pesticide†	Used in the manufacture of pharmaceuticals, insecticides, and urethane. N-Methyl carbamates are widely used as insecticides.
A-250		Individual	298000	Methyl parathion							7		pesticide†, neurotoxin	known Pesticide use
A-251		Individual	98851	Methyl phenyl carbinol		2*					7			Methylbenzyl alcohol can be used like benzyl alcohol, and can be employed in stoving enamels. In cellulose nitrate and acetyl cellulose lacquers, methylbenzyl alcohol helps to improve flow and film formation and prevents blushing at relatively high atmospheric humidity levels. It has also proved to be a useful additive in paint-removal agents on account of its dissolution properties and long evaporation time.
A-252		Individual	74895	Methylamine		2*					7			Intermediate for accelerators, dyes, pharmaceuticals, insecticides, fungicides, surface active agents, tanning, dyeing of acetate textiles, fuel additive, polymerization inhibitor, component of paint removers, solvent, photographic developer, rocket propellant.
A-253		Individual	5118343 302158	Methylhydrazine sulfate				4						Chemical Intermediate

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-254		Individual	591786	Methyl-n-butyl ketone				4					DART	used as a general solvent and in paints
A-255		Individual	(124583)	Monomethylarsonic acid (see Arsenic compounds (other than inorganic): Methylarsonic acid)			3					2B	cancer, pesticide†	known Pesticide use
A-256		Individual	110918	Morpholine							7			used as an intermediate in the manufacture of rubber chemicals and optical brighteners. It is also used extensively as a corrosion inhibitor in steam boiler systems. Morpholine is a common additive, in parts per million concentrations, for pH adjustment in both fossil fuel and nuclear power plant steam systems.
A-257		Individual	88671890	Myclobutanil				4					DART, pesticide†	Used heavily to control fungi affecting wine and table grapes, especially in California; Almonds and strawberries are also account for a notable percentage of myclobutanil use in California (EPA).
A-258		Individual	105555	N,N'-Diethylthiourea							7			accelerator for rubber processing; inhibitor of corrosion in metal pickling solution; accelerator activator in elastomers
A-259		Individual	127195	N,N-Dimethylacetamide				4					DART, neurotoxin	Solvent for plastics, resins, gums, and electrolytes; catalyst; paint remover; high-purity solvent for crystallization and purification. Used to dissolve polyacrylonitrile, polyvinyl chloride, polyamides, polyimides, cellulose derivatives, styrenes, and linear polyesters; manufacturing of films and fibers; booster solvent in coatings and adhesives formulations.
A-260		Individual	101257	N,N'-Dinitrosopentamethylenetetramine {Dinitrosopentamethylenetetramine}							7			
A-261		Individual	142596	Nabam				4					DART, pesticide†, neurotoxin	Systemic fungicide for fruit, nuts, vegetables, ornamentals; fungicide in leather and paper industries; chemical intermediate for fungicides
A-262		Individual	25134218	nadic methyl anhydride						6				Liquid anhydride for curing epoxy resins
A-263		Individual	85472	Naphthalene sulfonic acid (a-)		2*					7			used in the production of dyes
A-264		Individual	120183	Naphthalene sulfonic acid (b-)		2*					7			used in the production of dyes
A-265		Individual	135193	Naphthol (b-)		2*					7			used in dyes, pigments, fats, oils, insecticides, pharmaceuticals, perfumes, antiseptics, synthesis of fungicides, and antioxidants for rubber.
A-266		Individual	2426086	n-butyl glycidyl ether {butyl 2,3-epoxypropylether}			3*	4		6			DART, neurotoxin	used primarily as a reactive diluent or chemical intermediate in epoxy resins, which are widely used in electronics, construction, and coating materials.
A-267		Individual	60391926	N-Carboxymethyl-N-nitrosourea				4					cancer	No known commercial use (OEHHA 2002)
A-268		Individual	1929824	Nitrapyrin				4					cancer, DART, pesticide†	Pesticide, fertilizer, and other agricultural chemical manufacturing
A-269		Individual	99092	Nitroaniline (m-)		2*					7		neurotoxin	commonly used as a raw material for dyes. It is used as a chemical intermediate for azo coupling component 17 and the dyes disperse yellow 5 and acid blue 29.
A-270		Individual	88744	Nitroaniline (o-)		2*					7		neurotoxin	2-Nitroaniline is the main precursor to phenylenediamines, which are converted to benzimidazoles, a family of heterocycles that are key components in pharmaceuticals. It is protonated to give the anilinium salts.
A-271		Individual	100174	Nitroanisole (p-)		2*					7			chemical intermediate

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-272		Individual	75525	Nitromethane			3	4	5			2B	cancer, neurotoxin	The principal use of nitromethane is as a stabilizer for chlorinated solvents, which are used in dry cleaning, semiconductor processing, and degreasing. It is also used most effectively as a solvent or dissolving agent for acrylate monomers, such as cyanoacrylates (more commonly known as "super-glues"). It is also used as a fuel in some forms of racing. It can be used as an explosive, when gelled with several percent of gelling agent.
A-273	e	Individual	156105	p-Nitrosodiphenylamine [POM]	1	2		4	5				cancer, neurotoxin	
A-274		Individual	(99081)	Nitrotoluene (m-) (See Nitrotoluenes: 3-Nitrotoluene)		2*					7		neurotoxin	Manufacture of dyes, toluidines, nitrobenzoic acids, agricultural and rubber chemicals.
A-275		Individual	(99990)	Nitrotoluene (p-) (See Nitrotoluenes: 4-Nitrotoluene)		2*					7		neurotoxin	A dyestuff intermediate in producing rubber and agricultural chemicals and explosives, and as a chemical intermediate.
A-276		Individual	83410	Nitroxylene		2*					7			Organic synthesis, gelatinizing accelerators for pyroxylin
A-277		Individual	872504	N-methyl-2-pyrrolidone				4		6			DART	used to recover certain hydrocarbons generated in the processing of petrochemicals, such as the recovery of 1,3-butadiene and acetylene. It is used to absorb hydrogen sulfide from sour gas and hydrodesulfurization facilities. It is also used as a solvent for surface treatment of textiles, resins, and metal coated plastics or as a paint stripper. It is also used heavily in lithium ion battery fabrication, as a solvent for electrode preparation
A-278		Individual	99809	N-Methyl-N,4-dinitrosoaniline							7			[TBD]
A-279		Individual	932832	N-Nitrosohexamethyleneimine				4					cancer	There is a paucity of information regarding current use of NHEX. Historically, NHEX is known to have been used by FMC Corporation in an in-plant synthetic process (Walker et al. 1976). The chemical has also been manufactured by at least one producer in California for use as an explosive in ejector seats of military fighter jets.
A-280	e	Individual	86306	N-Nitrosodiphenylamine	1	2		4					cancer	
A-281	e	Individual	684935	N-Nitroso-N-methylurea	1	2	3	4	5			2A	cancer, neurotoxin	
A-282	e	Individual	59892	N-Nitrosomorpholine	1	2	3	4	5			2B	cancer	
A-283	e	Individual	100754	N-Nitrosopiperidine			3	4	5			2B	cancer	
A-284	e	Individual	930552	N-Nitrosopyrrolidine			3	4	5			2B	cancer	
A-285		Individual	(101257)	Dinitrosopentamethylenetetramine (See N,N'-Dinitrosopentamethylenetetramine)							7			
A-286		Individual	25154523	Nonylphenol		2*					7		pesticide†	known Pesticide use
A-287		Individual	--	Novolac resins						6				Used for paints and other surface coatings, molded and reinforced plastics, electronic component potting resints, and adhesives ranging from spray foam to dental cement
A-288		Individual	106945	n-Propyl Bromide {1-Bromopropane}			3	4	5	6		2B	cancer, neurotoxin	Solvent for fats, waxes and resins; intermediate in synthesis of pharmaceuticals, insecticides and other compounds; in spray adhesives; degreaser; cleaner for metal and precision electronic components.
A-289		Individual	627123	n-Propyl carbamate							7		pesticide†	Believed to be used as a chemical intermediate in the manufacture of dimethylol propyl carbamate-based resins, which are used in the textile industry as durable-press fabric finishes for polyester/cotton blends.

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-290		Individual	88120	N-Vinyl-2-pyrrolidone							7			is commonly used as a reactive diluent for radiation curing in UV-coating, UV-inks, and UV- adhesives.
A-291		Individual	27193288	Octylphenol		2*					7			used as an intermediate in the production of phenolic resins and in the manufacture of octylphenol ethoxylates. Phenolic resins are used in rubber processing, to make tyres, and in inks.
A-292		Individual	95545	O-Phenylenediamine and its salts				4					cancer, pesticide†	used as an intermediate in manufacturing fungicides, corrosion inhibitors, and pigments. OPD is an effective surfactant for binding and removing sulfur impurities, with applications in mining and other industries. OPD is also used for removing aldehyde impurities in polymeric materials.
A-293		Individual	615281	O-Phenylenediamine dihydrochloride				4					cancer, pesticide†	known Pesticide use
A-294		Individual	90437	o-Phenylphenol							7			Fungicide, germicide, household disinfectant, and laboratory reagent.
A-295		Individual	19044883	Oryzalin				4					cancer, pesticide†	known Pesticide use
A-296		Individual	19666309	Oxadiazon				4					cancer, DART, pesticide†	Used as a herbicide
A-297		Individual	301122	Oxydemeton methyl				4					DART, pesticide†, neurotoxin	Systemic insecticide, acaricide, effective control by contact and systemic action of many destructive pests that attack certain vegetable, fruit and field crops. Primarily for aphids, mites, thrips, leafhoppers, and other sucking pests.
A-298		Individual	42874033	Oxyfluorfen							7		pesticide†	Used as a selective pre and postemergent herbicide used to control certain annual broadleaf and grassy weeds in vegetables, fruit, cotton, es] ornamentals and on non-crop areas.
A-299		Individual	2439012	Oxythioquinox (Chinomethionat)				4					cancer, DART, pesticide†	Non-systemic fungicidal/acaricidal control of mites, mite eggs, pear psylla, and powdery mildew, e.g. red spider mite in gooseberry, strawberry, marrow, apple, and blackcurrant; powdery mildews in blackcurrant, marrow, and gooseberry; and leaf spot in blackcurrant.
A-300		Individual	24938645	para-Aramid fibrils							7		other inorganic	class of heat-resistant and strong synthetic fibers. They are used in aerospace and military applications, for ballistic-rated body armor fabric and ballistic composites, in bicycle tires, marine cordage, marine hull reinforcement, and as an asbestos substitute.
A-301		Individual	105113	para-Benzoquinone dioxime							7			Rubber production; bactericide
A-302		Individual	140567	para-Dimethylaminoazobenzenediazo sodium sulfonate							7		pesticide†	Seed and soil fungicide; foliar spray; all former uses
A-303		Individual	30525894	Paraformaldehyde		2*					7		neurotoxin	DNA binding; resins used in mfg particleboard, fiberboard and plywood; turned into formaldehyde for use as a fumigant, disinfectant, fungicide, fixative; thermoplastic;
A-304		Individual	1910425	Paraquat							7		pesticide†, neurotoxin	Paraquat is used as an herbicide. It will kill all green plant tissue that it contacts. It is a restricted use pesticide and is not available to the general public in the US.
A-305		Individual	(98566)	PCBTF (see 1-Chloro-4-(trifluoromethyl)benzene)						6			neurotoxin	Autobody coatings, repair and cleaning, rust prevention
A-306		Individual	20265967	p-chloroaniline hydrochloride				4					cancer	An aromatic amine widely used in the dye, chemical, textile, rubber and other industries; as an intermediate in the manufacture of dyes and pigments; detected as a degradation product in some pharmaceutical preparations.
A-307		Individual	40487421	Pendimethalin							7		pesticide†	Used as an herbicide of the dinitroaniline class used in premergence and postemergence applications to control annual grasses and certain broadleaf weeds.

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-308		Individual	60348609	Pentabromodiphenyl ether mixture [DE-71 (technical grade)]				4					cancer, neurotoxin	Brominated flame retardant; Industrial production was eliminated under the Stockholm Convention
A-309		Individual	608719	Pentabromophenol {PBP}							7			Flame retardant. Fire prevention materials, or additives/coatings to prevent flammability in paints, textiles, plastics, etc
A-310		Individual	608935	Pentachlorobenzene							7			Pentachlorobenzene is not known to have any commercial uses at present. In the past, pentachlorobenzene was one component of a chlorobenzenes mixture used to reduce the viscosity of PCB /polychlorinated biphenyl/ products employed for heat transfer. Pentachlorobenzene has also been used in a chlorobenzenes mixture with PCBs in electrical equipment. Pentachlorobenzene was used in the past as an intermediate in manufacture of pentachloronitrobenzene (quintozene), however, quintozene is now made by chlorination of nitrobenzene. Pentachlorobenzene may also have been used in the past as a fungicide and flame retardant.
A-311		Individual	133493	Pentachlorobenzenethiol							7			Used in rubber to facilitate processing
A-312		Individual	76017	Pentachloroethane							7		neurotoxin	Solvent in metal cleaning; separating coal from impurities; drying agent for timber
A-313		Individual	594423	Perchloromethyl mercaptan		2*					7		pesticide†, neurotoxin	Intermediate for the synthesis of dyes and fungicides; tear gas properties
A-314		Individual	52645531	Permethrin							7		pesticide†, neurotoxin	Permethrin is sprayed to control mosquitoes during spring and summer. It is used as a wood preservative. It is used on many food/feed crops, on farm animals and in barns. It is used in modes of transportation buildings, public health mosquito abatement programs, and numerous indoor and outdoor residential spaces. It is also used on pets and clothing (impregnated and ready to use formulations). Permethrin is used for the treatment of head lice and scabies.
A-315		Individual	156434	Phenetidine (p-)		2*					7			It is used as an intermediate in the synthesis of pharmaceutical drugs, dyes, and the sweetener dulcin.
A-316		Individual	100630	Phenylhydrazine and its salts				4					cancer, neurotoxin	manufacture dyes, antipyrine, nitron, intermediates, pharmaceuticals; reagent for sugars, aldehydes, ketones
A-317		Individual	59881	Phenylhydrazine hydrochloride				4						No info but similar to above?
A-318		Individual	298022	Phorate							7		pesticide†, neurotoxin	known Pesticide use
A-319		Individual	732116	Phosmet							7		pesticide†, neurotoxin	It is an organothiophosphate insecticide and a non-systemic acaricide and insecticide for the control of lepidopterous larvae, aphids, suckers, fruit flies, and spider mites on pome fruit, stone fruit, citrus fruit, ornamentals and vines
A-320		Individual	85416	Phthalimide		2*					7			Dyes; intermediate for primary amines, amino acids; fungicide
A-321		Individual	91156	Phthalonitrile		2*					7		neurotoxin	Intermediate in organic synthesis, especially pigments and dyes; base material for high temp lubricants and coatings
A-322		Individual	108996	Picoline (b-)		2*					7			Solvent; intermediate in dye and resins industries; in the manufacture of insecticides, waterproofing agents, niacin and niacinamide. Solvent in synthesis of pharmaceuticals, resins, dyestuffs, rubber accelerators, insecticides. preparation of nicotinic acid and nicotinic acid amide, waterproofing agents, laboratory reagent.
A-323		Individual	51036	Piperonyl butoxide							7		neurotoxin	Insecticide synergist; shampoo for lice
A-324		Individual	61790441	Potash soap							7		pesticide†	[TBD]

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-325		Individual	128030	Potassium dimethyldithiocarbamate				4					DART	Fungicide, antimicrobrial;
A-326		Individual	13492267	Potassium phosphite							7		pesticide†	Various products containing potassium phosphite are sold as either fertilizers to address potassium deficiencies, or as fungicide products to manage specific disease issues. As a fully systemic material, phosphite can be applied as a foliar spray, a soil injection for root uptake, or as a bark spray.
A-327		Individual	32809168	Procymidone				4					cancer, pesticide†	used for killing unwanted ferns and nettles, and as a dicarboximide fungicide for killing fungi, for example as seed dressing, pre-harvest spray or post-harvest dip of lupins, grapes, stone fruit, strawberries.
A-328		Individual	709988	Propanil		2*					7		pesticide†, neurotoxin	known Pesticide use
A-329		Individual	2312358	Propargite				4					cancer, pesticide†	known Pesticide use
A-330		Individual	23950585	Propyzamide		2*					7		pesticide†	known Pesticide use
A-331		Individual	98511	p-tert-Butyl toluene		2*					7			Solvent for resins; as a primary intermediate in chemical industry
A-332		Individual	123312890	Pymetrozine				4					cancer, pesticide†	Control of aphids and whiteflies in vegetables, ornamentals, cotton, field crops, deciduous and citrus fruit; control of plant hoppers in rice.
A-333		Individual	10453868	Resmethrin				4					cancer, DART, pesticide†	Food uses include crack and crevice spray and enclosed space fog in food handling establishments such as food processing/handling plants, restaurants, commercial food item transportation, and food storage facilities. There are no agricultural uses registered for resmethrin. Non-food uses include animal kennel and sleeping quarters; commercial warehouses; indoor and outdoor use in commercial, institutional, and industrial premises; hospitals; indoor and outdoor use in domestic dwellings; and application to ornamental plants.
A-334	e	Individual	36791045	Ribavirin				4		6			DART	A solution of ribavirin is administered as an aerosol for many hours at a time over several days. When delivered through a mist tent or an oxygen hood, aerosol may escape into patient-care areas. The mist remains in the air until it settles on nearby surfaces, is removed by the hospital ventilation system, or is inhaled by a health care worker or a visitor.
A-335		Individual	78488	S,S,S-Tributyl phosphorotrithioate				4					cancer, pesticide†, neurotoxin	known Pesticide use
A-336		Individual	874967676	Sedaxane				4					cancer, pesticide†	Use as a seed treatment in canola, cereal grains, and soybean. Sedaxane is particularly effective against certain smut diseases in cereal crops.
A-337		Individual	409212	Silicon carbide whiskers			3					2A	cancer, other inorganic	Polishing glass, granite; smoothing bisque ware; in sharpening stones; abrasive;manufacture /of/ porcelain, "emery" paper and wheels, shoe soles, refractory brick, furnace linings; antiskid pavements; in semiconductor technology. Abrasive for cutting and grinding metals, grinding wheels, refractory in non-ferrous metallurgy, ceramic industry and boiler furnaces, composite tubes for steam reforming operations. Fibrous form used in filament-wound structures and heat-resistant, high-strength composites. Production (tonnes), USA and Canada (crude) 35,000: Imports for consumption (USA) 108 000; Exports (USA) 17,700: Consumption, apparent (USA) 125,000

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-338		Individual	308076746	Silicon carbide, fibrous			3				2B	cancer, other inorganic	Polishing glass, granite; smoothing bisque ware; in sharpening stones; abrasive;manufacture /of/ porcelain, "emery" paper and wheels, shoe soles, refractory brick, furnace linings; antiskid pavements; in semiconductor technology. Abrasive for cutting and grinding metals, grinding wheels, refractory in non-ferrous metallurgy, ceramic industry and boiler furnaces, composite tubes for steam reforming operations. Fibrous form used in filament-wound structures and heat-resistant, high-strength composites. Production (tonnes), USA and Canada (crude) 35,000: Imports for consumption (USA) 108 000; Exports (USA) 17,700: Consumption, apparent (USA) 125,000
A-339		Individual	122349	Simazine				4				DART, pesticide†, neurotoxin	known Pesticide use
A-340		Individual	7758192	Sodium chlorite						7		other inorganic	For improving taste and odor of potable water (as an oxidizing agent); bleaching agent for textiles, paper pulp, edible and inedible oils, shellacs, varnishes, waxes and straw products; oxidizing agent; reagent.
A-341		Individual	128041	Sodium dimethyldithiocarbamate				4				DART	In water treatment, the rubber industry and is a registered biocide for cutting oils and aqueous systems in industries such as leather tanning and paper manufacturing.
A-342		Individual	124414	Sodium methoxide		2*				7			Condensation reactions, catalyst for treatment of edible fats and oils, especially lard, intermediate for pharmaceuticals, preparation of sodium cellulosate, analytical reagent.
A-343		Individual	7345699	Sodium tetrathiocarbamate						7		pesticide†	known Pesticide use
A-344		Individual	--	Special-purpose fibres such as E-glass and '475' glass fibres			3				2B	cancer	Uses for regular glass fiber include mats and fabrics for thermal insulation, electrical insulation, sound insulation, high-strength fabrics or heat- and corrosion-resistant fabrics. It is also used to reinforce various materials, such as tent poles, pole vault poles, arrows, bows and crossbows, translucent roofing panels, automobile bodies, hockey sticks, surfboards, boat hulls, and paper honeycomb. It has been used for medical purposes in casts. Glass fiber is extensively used for making FRP tanks and vessels.Open-weave glass fiber grids are used to reinforce asphalt pavement. Non-woven glass fiber/polymer blend mats are used saturated with asphalt emulsion and overlaid with asphalt, producing a waterproof, crack-resistant membrane. Use of glass-fiber reinforced polymer rebar instead of steel rebar shows promise in areas where avoidance of steel corrosion is desired.
A-345		Individual	148477718	Spirodiclofen				4				cancer, pesticide†	Used as an acaricide and insecticide in agriculture to control mites and San Jose scale. In the United States, it is used on citrus, grapes, pome fruit, stone fruit, and tree nut crops.
A-346	e	Individual	100425	Styrene	1	2	3	4		6	2B	cancer, neurotoxin	boat and ship building and repair; rubber products manufacturing; plastics, resins, and foams manufacturing; cultured marble and stone manufacturing and wholesale; fiber cans and drums manufacturing; and furniture and fixtures manufacturing
A-347	e	Individual	96093	Styrene oxide {Styrene-7,8-oxide}	1	2	3	4			2A	cancer, neurotoxin	Boat and ship building and repair; rubber products manufacturing; plastics, resins, and foams manufacturing; cultured marble and stone manufacturing and wholesale; fiber cans and drums manufacturing; and furniture and fixtures manufacturing. Chemical intermediate for styrene glycol, cosmetics, surface coatings, treatment of fibers & textiles, ag & biological chemicals

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-348		Individual	9003547	Styrene-acrylonitrile copolymers (must report the individual monomer components)							7			boat and ship building and repair; rubber products manufacturing; plastics, resins, and foams manufacturing; cultured marble and stone manufacturing and wholesale; fiber cans and drums manufacturing; and furniture and fixtures manufacturing
A-349		Individual	9003558	Styrene-butadiene copolymers (must report the individual monomer components)							7			boat and ship building and repair; rubber products manufacturing; plastics, resins, and foams manufacturing; cultured marble and stone manufacturing and wholesale; fiber cans and drums manufacturing; and furniture and fixtures manufacturing
A-350		Individual	108305	Succinic anhydride							7			Uses range from pharmaceuticals to food, detergents, cosmetics, plastics and resins, plant growth regulators, textiles, photography, and gas and water treatment. .Used in manufacture of polymeric materials, pharmaceuticals, agricultural chemicals, dyestuffs, photographic chemicals, surface-active agents, lubricant additives, fire-retardants for paper and in food industry.
A-351		Individual	57681	Sulfamethazine							7			It is anti-infective agent used in veterinary medicine. Sulfamethazine is used as a broad-spectrum antimicrobial to treat or prevent infections caused by susceptible organisms.
A-352		Individual	7704349	Sulfur							7		pesticide†, other inorganic	known Pesticide use
A-353		Individual	2699798	Sulfuryl fluoride							7		pesticide†, other inorganic, neurotoxin	known Pesticide use
A-354		Individual	10540291	Tamoxifen			3	4	5			1	cancer, pharmaceutical, neurotoxin	Pharmaceutical
A-355	e	Individual	54965241	Tamoxifen citrate [POM]	1	2		4				1	cancer, DART, pharmaceutical	Pharmaceutical
A-356		Individual	2593159	Terrazole				4					cancer, pesticide†	Used as an effective soil fungicide for prevention and control of damping-off, root rot and stem diseases caused by Pythium and Phytophthora species in ornamental, nursery crops and golf course tees and greens
A-357		Individual	994058	tert-Amyl methyl ether				4					DART, neurotoxin	Gasoline additive as an octane booster
A-358		Individual	79947	Tetrabromobisphenol A {TBBPA}			3	4				2A	cancer	It is used as a flame retardant in electronics, paper, plastics, textiles and to make other chemicals. It is also applied to carpeting and furniture. One of the most common fire retardants
A-359		Individual	632791	Tetrabromophthalic anhydride		2*					7			Fire retardant; chemical intermediate;
A-360		Individual	117088	Tetrachlorophthalic-anhydride		2*					7			Fire retardant; chemical intermediate dyes; drugs; plasticizers
A-361		Individual	78002	Tetraethyl lead		2*					7		metal, neurotoxin	Anti-knocking agent in leaded gas (been largely replaced); used to make other metal alkyls;
A-362		Individual	112607	Tetraethylene glycol		2*					7			TEG is an important commercial chemical. It is used as a solvent for lacquers and coatings, and to make plastics more flexible. It is also used to soften paper facial tissues. It is found in brake fluid and printer ink cartridges.
A-363		Individual	116143	Tetrafluoroethylene			3	4	5			2A	cancer	It is used mainly for the production of fluoropolymers. It reacts with perfluoronitrosoalkanes to produce so-called nitroso rubbers. It is also used in the production of low molecular mass compounds and intermediates, for example, for the manufacture of iodoperfluoroalkanes.
A-364		Individual	100505	Tetrahydrobenzaldehyde		2*					7			Intermediate for epoxy resins/epoxides used in electrical insulators; improves water resistance of textiles;

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-365		Individual	109999	Tetrahydrofuran		2*	3			7	2B	cancer, neurotoxin	This polymer is primarily used to make elastomeric polyurethane fibers like Spandex. The other main application of THF is as an industrial solvent for polyvinyl chloride (PVC) and in varnishes. THF is used as a solvent in 3D printing when using PLA plastics
A-366		Individual	119642	Tetrahydronapthalene		2*				7			Solvent for camphor, sulfure, iodine, naphthalene; in paint thinners; paint remover when mixed with decalin or white spirit; insecticide for clothes moth; subsitiute for turpentine and petrol in Germany; fats resins, oils waxes, shoe polishes; degreasing agent
A-367		Individual	85438	Tetrahydrophthalic anhydride		2*				7			It is used as an intermediate for polyesters, plasticizers, adhesives, and pesticides, and as a hardener for resins.
A-368		Individual		Tetrakis(hydroxymethyl)phosphonium salts						7			Flame retardant for textiles/fabrics;
A-369		Individual	110601	Tetramethylene-diamine		2*				7			Chemical intermediate, complexing agent, catalyst in resin technology, synthesis of quaternary ammonium compounds.
A-370		Individual	110189	Tetramethylethylenediamine		2*				7			Preparation of epoxy curing agents; polyurethane formation; corrosion inhibitor; textile finishing agents; intermediate for quaternary ammonium compounds
A-371		Individual	148798	Thiabendazole {TBZ}						7		pesticide†, neurotoxin	Controls green mold, blue mold, and stem end rot of citrus; Fusarium basal rot and Penicillium blue mold on ornamental bulbs and corms; crown rot on bananas; blue mold rot, bull's eye rot and gray mold on apples and pears; black rot, scurf, and foot rot of sweet potatoes; Fusarium dry rot in potato storage; preservative for reconstituted tobacco. Arbotect* controls Dutch elm diseases and sycamore anthracnose. Can also be used as seed treatment and stem injection applications.
A-372		Individual	23564058	Thiophanate methyl				4				DART, pesticide†	known Pesticide use
A-373		Individual	137268	Thiram						7		pesticide†, neurotoxin	known Pesticide use
A-374		Individual	13463677	Titanium dioxide			3	4	6		2B	cancer, metal	Airfloated ilmenite is used for titanium pigment manuf. Rutile sand is suitable for welding-rod-coating materials, as ceramic colorant, as source of titanium metal. As color in the food industry. Anatase titanium dioxide is used for welding-rod-coatings, acid resistant vitreous enamels, in specification paints, exterior white house paints, acetate rayon, white interior air-dry and baked enamels and lacquers, inks and plastics, for paper filling and coating, in water paints, tanners' leather finishes, shoe whiteners, and ceramics. High opacity and tinting values are claimed for rutile-like pigments. Pharmaceutic aid (coating agent).
A-375		Individual	104154	Toluene sulfonic acids		2*				7			Catalyst in coatings, paint, polymer, and textile industries. Stabilizer for monomers and polymers, pharmaceutical intermediate, cleaning agents, plating additive.
A-376		Individual	110576	trans-1,4-Dichlorobutene						7		neurotoxin	Chemical intermediate for chloroprene, adiponitrile, butane-1,4-diol, tetrahydrofuran, hexamethylenediamine
A-377		Individual	25962770	trans-2-[(Dimethylamino)methylimino]-5-[2-(5-nitro-2-furyl)-vinyl]-1,3,4-oxadiazole			3				2B	cancer	[TBD]
A-378		Individual	43121433	Triadimefon				4				DART, pesticide†, neurotoxin	Used in agriculture to control various fungal diseases. As a seed treatment, it is used on barley, corn, cotton, oats, rye, sorghum, and wheat.
A-379		Individual	2155706	Tributyltin methacrylate				4				DART, metal	Widely used as stabilizers for plastics, additives to paint(as antifouling agents). Some have catalytic properties

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-380		Individual	76039	Trichloroacetic acid			3	4				2B	cancer	Primarily for the production of its sodium salt, which is used as a selective herbicide /Former use/. Also as an etching or pickling agent in the surface treatment of metals, as a swelling agent and solvent in the plastics industry, as an albumin precipitating agent in medicine, as an auxilliary in textile finishing, as an additive to improve high-pressure properties in mineral lubricating oils, to remove warts and hard skin, and as starting material in organic synthesis.
A-381		Individual	101202	Triclocarban							7			Antimicrobial active ingredient used globally in a wide range of personal cleansing products including deodorant soaps, deodorants, detergents, cleansing lotions, and wipes. Should be phasing out in U.S.
A-382		Individual	(3380345)	Triclosan (see Chlorophenols)							7			
A-383		Individual	38260014	Trientine hydrochloride				4					DART	Pharmaceutical; Trientine Hydrochloride is the hydrochloride salt form of a metal chelating agent with potential anti-angiogenic activity. Trientine chelates excess copper (Cu) ions in the body; the excess copper is subsequently removed from the body through the kidneys. A chelating agent works by removing a heavy metal (such as lead, mercury, or copper) from the blood.
A-384		Individual	112243	triethylenetetramine						6				used as a crosslinker ("hardener") in epoxy curing.
A-385		Individual		TRIM VX				4					cancer, other inorganic	Pharmaceutical; Cutting fluid
A-386		Individual	75503	Trimethylamine		2*					7			Trimethylamine is an important commercial chemical. It is used in chemical production and the manufacture of disinfectants. It is a warning agent for natural gas, an insect attractant and a flotation agent. Trimethylamine is found in plants, including tobacco, alfalfa and rice. It is formed during the decay of organic matter in sewage, plants, fish, animals and animal waste.
A-387		Individual	15625895	Trimethylolpropane triacrylate, technical grade			3*					2B	cancer	Used in the production of ultraviolet-curable inks, electron beam irradiation-curable coatings, and polymers and resins; as a component of photopolymer and flexographic printing plates and photoresists; and as an ingredient in acrylic glues and anaerobic sealants. Also used in paper and wood impregnates, wire and cable extrusion, polymer-impregnated concrete, and polymer concrete structural composites.
A-388		Individual	13674878	Tris(1,3-dichloro-2-propyl) phosphate {TDCPP}				4					cancer	Used in foams and other flame-retardant materials
A-389		Individual	545551	Tris(1-aziridinyl)phosphine oxide							7		pesticide†	[TBD]
A-390		Individual	115968	Tris(2-chloroethyl) phosphate				4					cancer, neurotoxin	Used in rigid polyurethane and polyisocyanurate foams. It is used in carpet backing, flame-laminated and rebounded flexible foam and flame-retardant coatings. Tris(2-chloroethyl) phosphate is used in adhesives, cast acrylic sheet and wood-resin composites such as particle board.
A-391		Individual	9011056	urea formaldehyde						6				Decorative laminates, textiles, paper, foundry sand molds, wrinkle resistant fabrics, cotton blends, rayon, corduroy, etc. It is also used to glue wood together. Urea formaldehyde was commonly used when producing electrical appliances casing (e.g. desk lamps).
A-392		Individual	50471448	Vinclozolin				4					cancer, DART, pesticide†	Vinclozolin was previously used as a fungicide on some fruits, nuts, vines, vegetables, ornamentals and wood preservative in the US. After 2004, its use in the US was restricted to only include use on canola and on turf used on golf courses and industrial sites. The only food import allowed following use of vinclozolin is wine grapes. Some other countries continue to use this fungicide.

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-393		Individual	9003229	Vinyl chloride-vinyl acetate copolymers (must report the individual monomer components)							7			Vinyl chloride is an important commercial chemical. Its major use is in the production of polyvinyl chloride (PVC) and other copolymer plastics. These plastics are used in piping, floor coverings, consumer goods, electrical applications in the construction, automotive, industrial, household and medical industries
A-394		Individual	25013154	Vinyl toluene		2*					7		neurotoxin	Reactive monomer; used in the coatings industry as a modifier for drying oils and oil-modified alkyds; used as a replacement for styrene in unsaturated polyester resins; used as a copolymer with styrene to increase the operating temperature range of paints, coatings and varnishes.
A-395		Individual	9011067	Vinylidene chloride-vinyl chloride copolymers (must report the individual monomer components)							7			Used in the production of polymers and organic synthesis. It is used to make plastic products such as Saran wrap and Velon.
A-396		Individual	13983170	Wollastonite							7			Ceramics; paint extender; welding rod coatings; rubber filler; silica gels; paper coating; filler in plastics, cements, and wallboard; mineral wool; soil conditioner
A-397		Individual	315184	Zectran {Mexacarbate}							7		pesticide†	Control out-of-doors & greenhouse pests of ornamental plants, turf & ground cover; control forestry pests such as western spruce budworm & jack pine budworm; pests controlled included mites, snails, slugs & a wide range of insect pests
A-398		Individual	137304	Ziram							7		pesticide†	known Pesticide use
A-399		Individual	123353	β-Myrcene			3	4				2B	cancer	Perfume and flavoring chemical; Detergents; Insect repellant
A-400	e	Antimony	*	Antimony compounds including but not limited to:	1	2							metal	
A-401	e	Antimony	7440360	Antimony							7		metal	Hardening alloy for lead, especially storage batteries and cable sheaths; bearing metal; type metal; solder; collapsible tubes and foil; sheet and pipe; semiconductor technology (99.999% grade); pyrotechnics.
A-402	e	Antimony	1309644	Antimony trioxide	1	2	3	4				2B	cancer, metal	
A-403		Antimony	1345046	Antimony trisulfide							7		metal	Pyrotechnics, glass, pigments, production of antimony compounds
A-404	e	Arsenic	7440382	Arsenic	1	2	3	4	5			1	cancer, metal, neurotoxin	
A-405	e	Arsenic compounds (inorganic)	1016	Arsenic compounds (inorganic) including but not limited to:	1	2	3	4	5			1	cancer, metal	
A-406	e	Arsenic compounds (inorganic)	7784421	Arsine	1	2	3				7	1	metal, neurotoxin	
A-407		Arsenic compounds (inorganic)	7778394	Arsenic acid			3				7	1	pesticide†, metal, neurotoxin	Pesticide; wood preservative; finishing agent for glass; reagent; dessicant for cotton
A-408		Arsenic compounds (inorganic)	--	Arsenic (inorganic oxides)			3	4				1	DART	
A-409		Arsenic compounds (inorganic)	1303282	Arsenic pentoxide			3				7	1	pesticide†, metal, neurotoxin	Pesticide; dyeing and printing; mfg of colored glass; wood preservatives; metal adhesive
A-410		Arsenic compounds (inorganic)	1327533	Arsenic trioxide			3				7	1	pesticide†, metal	Pesticide; medicine; precursor to foresty products; glass; electronics
A-411		Arsenic compounds (inorganic)	1303000	Gallium arsenide (see Arsenic and inorganic arsenic compounds)			3	4				1	cancer	
A-412	e	Arsenic (other than inorganic)	1017	Arsenic compounds (other than inorganic) including but not limited to:	1								metal, neurotoxin	
A-413		Arsenic (other than inorganic)	124583	Methylarsonic acid			3					2B	cancer, pesticide†	known Pesticide use
A-414	e	Asbestos	(1332214)	Asbestos (all forms): (see Mineral Fibers Emittent ID 1135)	1	2	3	4	5			1	cancer, other inorganic	
A-415		Asbestos	12001284	actinolite	1		3					1	cancer, other inorganic	actinolite is not used commercially, but they can be found as contaminants in chrysotile asbestos, vermiculite and talc.

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-416		Asbestos	12001295	asmosite	1		3					1	cancer, other inorganic	used most frequently in cement sheets and pipe insulation. It can also be found in insulating board, ceiling tiles and thermal insulation products.
A-417		Asbestos	12172735	anthophyllite	1		3					1	cancer, other inorganic	was used in limited quantities for insulation products and construction materials. It also occurs as a contaminant in chrysotile asbestos, vermiculite and talc. It may have a grey, dull green or white color.
A-418		Asbestos	77536664	chrysotile	1		3					1	cancer, other inorganic	the most commonly used form of asbestos. It can be found today in the roofs, ceilings, walls and floors of homes and businesses. Manufacturers also used chrysotile asbestos in automobile brake linings, gaskets and boiler seals, and insulation for pipes, ducts and appliances.
A-419		Asbestos	77536675	crocidolite	1		3					1	cancer, other inorganic	was commonly used to insulate steam engines. It was also used in some spray-on coatings, pipe insulation, plastics and cement products.
A-420		Asbestos		Fluoro-edenite fibrous amphibole			3					1	cancer	[TBD]
A-421		Asbestos	77536686	Tremolite	1		3					1	cancer, other inorganic	Tremolite fibres are often found as a contaminant in chrysotile asbestos and found in paints, sealants, asbestos-containing insulation products and talc products. It can manifest in several colours, including white, green and grey, and is useful as it can be spun and woven into cloth.
A-422	e	Benzidine-based dyes	1020	Benzidine-based dyes [POM] including but not limited to:	1	2	3	4					cancer	
A-423		Benzidine-based dyes	612828	3,3'-Dimethylbenzidine dihydrochloride				4					cancer	Dye
A-424	e	Berillium Compounds	*	Beryllium compounds	1	2	3	4	5			1	cancer, metal	
A-425		Berillium Compounds	13510491 7787566	Beryllium sulfate			3	4				1	metal	Primarily used for the production of beryllium oxide powder for ceramics.
A-426		Berillium Compounds	1304569	Beryllium oxide			3	4				1	metal	Beryllium oxide is used in high technology ceramics, electronic heat sinks, electrical insulators, microwave oven components, gyroscopes, military vehicle armor, rocket nozzles crucibles, thermocouple tubing, laser structural components, substrates for high-density electrical circuits, automotive ignition systems, and radar electronic countermeasure systems.
A-427		Brominated and Chlorinated Flame Retardants	--	Brominated and Chlorinated Organic Compounds used as Flame Retardants							7			
A-428		Brominated and Chlorinated Flame Retardants		1,1'-Sulfonylbis[3,5-dibromo-4-(2,3- dibromopropoxy) benzene							7			
A-429		Brominated and Chlorinated Flame Retardants	37853591	1,2-Bis(2,4,6-tribromophenoxy)ethane {BTBPE}							7			
A-430		Brominated and Chlorinated Flame Retardants	3322938	1,2-Dibromo-4-(1,2-dibromoethyl)cyclohexane {TBECH}							7			
A-431		Brominated and Chlorinated Flame Retardants	3296900	2,2-Bis(bromomethyl)-1,3-propanediol			3	4	5			2B	cancer	Reactive flame retardant used primarily in unsaturated polyester resins and polyurethane foams.
A-432		Brominated and Chlorinated Flame Retardants	38051104	2,2-Bis(chloromethyl)trimethylene bis[bis(2-chloroethyl)phosphate]							7			
A-433		Brominated and Chlorinated Flame Retardants		2,3,5,6-Tetrabromo-p-xylene							7			
A-434		Brominated and Chlorinated Flame Retardants	35109605	2,3-Dibromopropyl-2,4,6-tribromophenyl ether {DPTE}							7			
A-435		Brominated and Chlorinated Flame Retardants		2,4,6-Tribromophenol							7			

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-436		Brominated and Chlorinated Flame Retardants		2,4,6-Tris(2,4,6-tribromophenoxy)-1,3,5-triazine							7			
A-437		Brominated and Chlorinated Flame Retardants	615587	2,4-Dibromophenol							7			Flame retardant. Fire prevention materials, or additives/coatings to prevent flammability in paints, textiles, plastics, etc.
A-438		Brominated and Chlorinated Flame Retardants	99717563	2-Bromoallyl 2,4,6-tribromophenyl ether {BATE}							7			
A-439		Brominated and Chlorinated Flame Retardants		2-Ethyl-1-hexyl-2,3,4,5-tetrabromobenzoate {TBB}							7			
A-440		Brominated and Chlorinated Flame Retardants		2-Hydroxypropyl 2-(2-hydroxyethyl)ethyl tetrabromophthalate							7			
A-441		Brominated and Chlorinated Flame Retardants	3278895	Allyl 2,4,6-tribromophenyl ether {ATE}							7			
A-442		Brominated and Chlorinated Flame Retardants	26040517	Bis(2-ethyl-1-hexyl)tetrabromophthalate {TBPH}							7			
A-443		Brominated and Chlorinated Flame Retardants	13560899	Bis(hexachlorocyclopentadieno)cyclooctane							7			
A-444		Brominated and Chlorinated Flame Retardants	115286	Chlorendic acid			3	4	5			2B	cancer	
A-445	e	Brominated and Chlorinated Flame Retardants	108171262	Chlorinated paraffins			3	4	5			2B	cancer	
A-446		Brominated and Chlorinated Flame Retardants	84852539	Decabromodiphenylethane {DBDPE}							7			
A-447		Brominated and Chlorinated Flame Retardants		Hexabromobenzene {HBB}							7			
A-448		Brominated and Chlorinated Flame Retardants	59080409 36355018	Hexabromobiphenyl {2,2',4,4',5,5'-Hexabromobiphenyl}					5					
A-449		Brominated and Chlorinated Flame Retardants	25637994	Hexabromocyclododecane							7			Primary use is polystyrene foam used as thermal insulation; other uses are upholstered furntiure, automobiel interior textiles, car cushions, insulation blocks in trucks, packaging material, eletronic equipment
A-450		Brominated and Chlorinated Flame Retardants		Hexachlorocyclopentadienyl-dibromocyclooctane							7			
A-451		Brominated and Chlorinated Flame Retardants		Isobutoxypentabromocyclododecanes {iBPBCDs}							7			
A-452		Brominated and Chlorinated Flame Retardants		N,N′-Ethylenebis(tetrabromophthalimide)							7			
A-453		Brominated and Chlorinated Flame Retardants		Octabromotrimethylphenylindane {OBIND}							7			
A-454		Brominated and Chlorinated Flame Retardants		Pentabromoethylbenzene {PBEB}							7			
A-455		Brominated and Chlorinated Flame Retardants		Pentabromophenol {PBP}							7			
A-456		Brominated and Chlorinated Flame Retardants		Pentabromotoluene {PBT}							7			
A-457		Brominated and Chlorinated Flame Retardants		Tetrabromobisphenol A bis(2,3-dibromopropyl) ether {TBBPA-DBPE}							7			

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-458		Brominated and Chlorinated Flame Retardants		Tetrabromobisphenol A bis(2-hydroxyethyl) ether						7			
A-459		Brominated and Chlorinated Flame Retardants		Tetrabromobisphenol A diallyl ether						7			
A-460		Brominated and Chlorinated Flame Retardants		Tetrabromophthalic acid, mixed esters						7			
A-461		Brominated and Chlorinated Flame Retardants		Tribromoneopentylalcohol						7			
A-462		Brominated and Chlorinated Flame Retardants		Tris(1-chloro-2-propyl)phosphate {TCPP}						7			
A-463		Brominated and Chlorinated Flame Retardants		Tris(2,3-dibromopropyl) isocyanurate						7			
A-464		Brominated and Chlorinated Flame Retardants		Tris(2,3-dibromopropyl)phosphate {TDBPP}						7			
A-465		Brominated and Chlorinated Flame Retardants		Tris(2,3-dichloro-1-propyl)phosphate						7			
A-466		Brominated and Chlorinated Flame Retardants		Tris(tribromoneopentyl)phosphate						7			
A-467	e	Bromine Compounds	*	Bromine compounds (inorganic) including but not limited to:	1	2						other inorganic	
A-468		Bromine Compounds	15541454	Bromate				4				cancer, other inorganic, neurotoxin	[TBD]
A-469	e	Cadmium Compounds	*	Cadmium compounds	1	2	3	4	5		1	cancer, DART, metal	
A-470		Cadmium Compounds	10108642	Cadmium chloride			3			7	1	pesticide†, metal, neurotoxin	Photography; dyeing and calico printing; in the vacuum tube industry; manufacture of cadmium yellow; galvanoplasty; manufacture of special mirrors; as ice-nucleating agent; as lubricant; in analysis of sulfides to absorb the H2S; in testing for pyridine bases; as fungicide.
A-471		Cadmium Compounds	141004	Cadmium succinate			3			7	1	pesticide†, metal	Cadmium succinate is used as a pesticide, and also to control turfgrass diseases
A-472		Carbon Nanotubes		Carbon nanotubes including but not limited to			3						
A-473		Carbon Nanotubes	308068566	multiwalled carbon nanotubes other than MWCNT-7			3				2B	cancer	
A-474	e	Chlorinated paraffins	108171262	Chlorinated paraffins (average chain length, C12; approximately 60% Chlorine by weight) (This includes C10-13, chloro Short Chain Chlorinated Paraffins)			3	4	5		2B	cancer, neurotoxin	
A-475	e	Chlorobenzenes	1058	Chlorobenzenes including but not limited to:	1								
A-476	e	Chlorobenzenes	108907	Chlorobenzene	1	2						neurotoxin	
A-477	e	Chlorobenzenes	25321226	Dichlorobenzenes (mixed isomers) including:	1					7			
A-478	e	Chlorobenzenes	95501	1,2-Dichlorobenzene	1					7		neurotoxin	
A-479	e	Chlorobenzenes	541731	1,3-Dichlorobenzene	1					7		neurotoxin	
A-480	e	Chlorobenzenes	106467	p-Dichlorobenzene {1,4-Dichlorobenzene}	1	2	3	4	5		2B	cancer, neurotoxin	Insecticide, germicide, space and garbage deodorizer; chemical intermediate in organic chemicals, dyes, and pharmaceuticals
A-481	e	Chlorobenzenes	120821	1,2,4-Trichlorobenzene	1	2							
A-482		Chlorobenzenes	87616	1,2,3-Trichlorobenzene		2*				7			Chemical intermediate; solvent for oil-soluble dyes; degreasing solvent; dielectric fluid; lubricating-oil additive; heat transfer medium

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-483		Chlorobenzenes	634662	1,2,3,4-Tetrachlorobenzene						7			Component of dieletric fluids; synthesis
A-484		Chlorobenzenes	95943 12408105 63697223	1,2,4,5-Tetrachlorobenzene						7			[TBD]
A-485		Chloromethyl ethers	*	Chloromethyl ethers						7			Chemical intermediates
A-486		Chloronitrobenzenes		Chloronitrobezenes including but not limited to:									
A-487		Chloronitrobenzenes	88733	1-Chloro-2-nitrobenzene {o-Chloronitrobenzene}		2*				7			Chemical intermediate for colorants, chemicals, lumber preservatives, photographic chemicals, etc.
A-488		Chloronitrobenzenes	100005	1-Chloro-4-nitrobenzene				4				cancer	Intermediate, especially for dyes; manufacture of p-nitrophenol from which parathion is made; agricultural chemicals; rubber chemicals
A-489		Chloronitrobenzenes	89612	1,4-Dichloro-2-nitrobenzene			3*				2B	cancer	Used as an intermediate for pigments, pesticides and UV absorbents in closed systems
A-490		Chloronitrobenzenes	121733	m-Chloronitrobenzene {3-Chloronitrobenzene}		2*				7			Chemical intermediate for dyes
A-491	e	Chlorophenols	1060	Chlorophenols including but not limited to:	1		3					cancer	
A-492		Chlorophenols	108430	Chlorophenol (m-)	1	2*						neurotoxin	3-Chlorophenol is a halophenol with antifungal activity. 3-Chlorophenol is commonly used as a building block in the preparation of variety of biologically active compounds. Studies suggest that 3-Chlo rophenol can be used in the regeneration of vegetal activated carbons.
A-493		Chlorophenols	106489	Chlorophenol (p-)	1	2*						neurotoxin	Intermediate in synthesis of dyes and drugs; denaturant for alcohol; selective solvent in refining mineral oil; biocide; disinfectant; adhesion promotion agent
A-494		Chlorophenols	583788	2,5-Dichlorophenol						7			Chemical intermediate, manufacture of herbicide (dicamba).
A-495		Chlorophenols	3380345	Triclosan						7			Antibacterial and antifungal agent in some consumer products, including toothpaste, soaps, detergents, toys, and surgical cleaning treatments.
A-496		Cobalt and Cobalt Compounds	7440484	Cobalt			3			7	2B	cancer, metal	
A-497	e	Cobalt and Cobalt Compounds	*	Cobalt Compounds			3				2B	cancer, metal	
A-498		Cobalt and Cobalt Compounds	xx	> Insoluble Cobalt Compounds, including but not limited to:									
A-499		Cobalt and Cobalt Compounds	513791	Cobalt Carbonate						7			
A-500		Cobalt and Cobalt Compounds	1307966	Cobalt [II] oxide				4			2B	cancer, metal	In pigments for ceramics; glass coloring and decolorization; oxidation catalyst for drying oils, fast-drying paints and varnishes; preparation of cobalt-metal catalysts, cobalt powder for binder in sintered tungsten carbide; in semiconductors.
A-501		Cobalt and Cobalt Compounds	1308061	Cobalt [III] oxide						7			
A-502		Cobalt and Cobalt Compounds	21041930	Cobalt Hydroxide						7			
A-503		Cobalt and Cobalt Compounds	814891	Cobalt Oxalate						7			
A-504		Cobalt and Cobalt Compounds	1317426	Cobalt Sulfide						7			

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-505		Cobalt and Cobalt Compounds	xx	> Cobalt sulfate and other soluble cobalt compounds, including but not limited to:										
A-506		Cobalt and Cobalt Compounds	71487	Cobalt Acetate (tetrahydrate)							7			
A-507		Cobalt and Cobalt Compounds	10124433	Cobalt sulfate			3	4				2B	cancer, metal	Used in storage batteries; in cobalt-electroplating baths; as drier for lithographic inks, varnishes; in ceramics, enamels, glazes to prevent discoloring; in cobalt pigments for decorating porcelain.
A-508		Cobalt and Cobalt Compounds	7646799	Cobalt Chloride (hexahydrate)							7			
A-509		Cobalt and Cobalt Compounds	10141056	Cobalt Nitrate (hexahydrate)							7			
A-510		Cobalt and Cobalt Compounds	136527	Cobalt Octoate							7			
A-511		Cobalt and Cobalt Compounds	10026241	Other soluble cobalt (II) salts			3					2B	cancer, metal	Used in storage batteries; in cobalt-electroplating baths; as drier for lithographic inks, varnishes; in ceramics, enamels, glazes to prevent discoloring; in cobalt pigments for decorating porcelain.
A-512		Cobalt and Cobalt Compounds	10026241	Cobalt Sulfate (heptahydrate)							7			
A-513	e	Cyanide compounds (inorganic)	57125	Cyanide compounds (inorganic) including but not limited to:	1	2							other inorganic	
A-514		Cyanide compounds (inorganic)	74908 341972314 191234227	Hydrogen cyanide {HCN} and cyanide salts {CN salts}				4					DART, neurotoxin	
A-515	e	Cyanide compounds (inorganic)	74908	Hydrocyanic acid		2							other inorganic, neurotoxin	Used in the production of a variety of useful industrial chemicals such as sodium cyanide, potassium cyanide, methyl methacrylate (monomer used for making polymers and plastics), chelating agents EDTA and NTA, as well as the polymer Nylon
A-516		Cyanide compounds (inorganic)	151508	Potassium cyanide				4					other inorganic, neurotoxin	Primarily for silver plating and also for dyes & specialty products; with sodium cyanide for nitriding steel
A-517		Cyanide compounds (inorganic)	143339	Sodium cyanide				4					other inorganic, neurotoxin	Cleaning metals; manufacture of dyes and pigments, nylon int, chelating cmpd; extracting gold and silver from ores; fumigant
A-518		Cyclosiloxanes	*	Cyclosiloxanes, including but not limited to:							7			
A-519		Cyclosiloxanes	541026	Decamethylcyclopentasiloxane {D5} {Decamethyl-1,3,5,7,9,2,4,6,8,10-pentaoxapentasilecane}						6	7			Dry cleaning and solvent alternative
A-520		Cyclosiloxanes	540976	Dodecamethylcyclohexasiloxane {D6}							7			
A-521		Cyclosiloxanes	556672	Octamethylcyclotetrasiloxane {D4}							7			
A-522		Flame retardants	--	Flame retardants (see "Brominated and Chlorinated Organic Compounds Used as Flame Retardants")							7			
A-523	e	Fluorides and compounds	1101	Fluorides and compounds including but not limited to:		2								
A-524	e	Fluorides and compounds	7664393	Hydrogen fluoride	1	2					7			
A-525		Fluorides and compounds		Modified Hydrogen fluoride {MHF}							7			Refineries
A-526		Fusarium and its derivatives	116355830	Fusarium and its derivatives			3							Several species of Fusarium molds which occur mainly in maize (corn), wheat and other cereals.

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-527		Fusarium and its derivatives		Fusarium moniliforme			3	4			2B	cancer	Several species of Fusarium molds which occur mainly in maize (corn), wheat and other cereals.
A-528		Fusarium and its derivatives	116355830	Fumonisin B1			3				2B	cancer	Several species of Fusarium molds which occur mainly in maize (corn), wheat and other cereals.
A-529		Fusarium and its derivatives	116355841	Fumonisin B2			3				2B	cancer	Several species of Fusarium molds which occur mainly in maize (corn), wheat and other cereals.
A-530		Fusarium and its derivatives	79748815	Fusarin C			3	4			2B	cancer	Several species of Fusarium molds which occur mainly in maize (corn), wheat and other cereals.
A-531	e	Glycol ethers and their acetates	1115	Glycol ethers and their acetates including but not limited to:	1	2			6				
A-532	e	Glycol ethers and their acetates	111466	Diethylene glycol {DEG}	1				6			neurotoxin	
A-533	e	Glycol ethers and their acetates	111966	Diethylene glycol dimethyl ether {Diglyme} {2-Methoxyethyl ether}	1	2			6				
A-534		Glycol ethers and their acetates	112732	Diethylene glycol dibutyl ether {DEGBE}		2*				7			Solvent
A-535	e	Glycol ethers and their acetates	112345	Diethylene glycol monobutyl ether	1	2			6			neurotoxin	
A-536		Glycol ethers and their acetates	124174	Diethylene glycol monobutyl ether acetate		2*				7			As a solvent in printing inks and high-bake enamels, as a coalescing aid in latex paints, in silk screen inks and as a component in polystyrene coatings for decals. Also a selective solvent in the separation of alcohols and ketones by distillation.
A-537	e	Glycol ethers and their acetates	111900	Diethylene glycol monoethyl ether	1	2			6				
A-538		Glycol ethers and their acetates	112152	Diethylene glycol monoethyl ether acetate		2*				7		neurotoxin	Ethoxyethanol Acetate has been used as a blush retardant in lacquers, as a solvent for nitrocellulose, oils, and resins, in wood stains and varnish removers, and in products for the treatment of textiles and leathers. It is also used as a solvent in the processes of welding nosepads to eyeglass frames and laminating plastic sheets.
A-539		Glycol ethers and their acetates	112594	Diethylene glycol monohexyl ether		2*				7		neurotoxin	Solvent
A-540	e	Glycol ethers and their acetates	111773	Diethylene glycol monomethyl ether	1	2			6				
A-541		Glycol ethers and their acetates	629389	Diethylene glycol monomethyl ether acetate		2*				7			[TBD]
A-542	e	Glycol ethers and their acetates	25265718	Dipropylene glycol	1	2*			6	7			
A-543	e	Glycol ethers and their acetates	34590948	Dipropylene glycol monomethyl ether	1				6				
A-544		Glycol ethers and their acetates	111557	Ethylene glycol diacetate		2*				7		neurotoxin	Solvent for esteres, ethers, natural products, printing inks, perfume fixatives, resins
A-545		Glycol ethers and their acetates	112481	Ethylene glycol dibutyl ether		2*				7			Solvent
A-546	e	Glycol ethers and their acetates	629141	Ethylene glycol diethyl ether	1	2			6			neurotoxin	
A-547		Glycol ethers and their acetates	97905	Ethylene glycol dimethacrylate {EGDMA}		2*			6	7			artificial nail products; curing agent; dental restoration; synthetic wound dressings
A-548	e	Glycol ethers and their acetates	110714	Ethylene glycol dimethyl ether	1	2			6				
A-549		Glycol ethers and their acetates	542596	Ethylene glycol monoacetate		2*				7			[TBD]
A-550	e	Glycol ethers and their acetates	111762	Ethylene glycol monobutyl ether	1	2			6			neurotoxin	
A-551		Glycol ethers and their acetates	112072	Ethylene glycol monobutyl ether acetate		2*				7		neurotoxin	EGBEA is primarily used as a solvent in paints. This principal use covers about 90% of its total volume. The remaining 10% are scattered within several other uses. It is used, for example, as a solvent in metal cleaning, screen printing inks and in leather processing industry or as a cleaning agent in detergents.

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-552	e	Glycol ethers and their acetates	110805	Ethylene glycol monoethyl ether	1	2		4		6			DART, neurotoxin	
A-553	e	Glycol ethers and their acetates	111159	Ethylene glycol monoethyl ether acetate	1	2		4		6			DART, neurotoxin	
A-554		Glycol ethers and their acetates	112254	Ethylene glycol monohexyl ether		2*					7		neurotoxin	Solvent; chemical intermediate
A-555	e	Glycol ethers and their acetates	109864	Ethylene glycol monomethyl ether	1	2		4		6			DART, neurotoxin	
A-556	e	Glycol ethers and their acetates	110496	Ethylene glycol monomethyl ether acetate	1	2		4		6			DART, neurotoxin	
A-557		Glycol ethers and their acetates	10020436	Ethylene glycol monooctyl ether		2*					7			[TBD]
A-558		Glycol ethers and their acetates	122996	Ethylene glycol monophenyl ether		2*					7		neurotoxin	Solvent for cellulose acetate, dyes; inks, resins; perfume fixative; bactericidal agent; organic synthesis of plasticizers, germicides, pharmaceuticals; insect repellents
A-559	e	Glycol ethers and their acetates	2807309	Ethylene glycol monopropyl ether	1	2				6				
A-560	e	Glycol ethers and their acetates	107982	Propylene glycol monomethyl ether	1					6				
A-561	e	Glycol ethers and their acetates	108656	Propylene glycol monomethyl ether acetate	1					6			neurotoxin	
A-562	e	Glycol ethers and their acetates	112492	Triethylene glycol dimethyl ether	1	2				6				
A-563		Glycol ethers and their acetates	112505	Triethylene glycol monoethyl ether		2*					7			The primary industrial use of triethylene glycol monoethyl ether is 95% as a major raw material (diluent) in the formulation of hydraulic brake fluid. Other uses include coatings, printing inks, some specialty chemicals, antisudsing agents for finely powdered materials, cleaning products, cutting oils and deicing agents.
A-564		Glycol ethers and their acetates	112356	Triethylene glycol monomethyl ether		2*					7			Coupling solvent (water-based paints), brake/hydraulic fluid blending component, plasticizer/wetting agent (resins, paints), solvent.
A-565	e	Isocyanates	1125	Isocyanates including but not limited to:						6				print shops and commercial printing; aerospace manufacturing and maintenance; adhesive and sealants manufacturing; plastics foam products manufacturing; military facilities; manufacture of flexible and rigid foams, fibers, coatings such as paints and varnishes, and elastomers; spraying of polyurethane coatings on cement, wood, fiberglass and metals; manufacture or use of blowing agents; production of polyurethane foam; and auto body shops
A-566		Isocyanates		> Mono isocyanates including but not limited to:						6	7			
A-567	e	Isocyanates	624839	Methyl isocyanate	1	2		4					DART	
A-568		Isocyanates	109900	Ethyl isocyanate						6	7			
A-569		Isocyanates	110781	Propyl isocyanate						6	7			
A-570		Isocyanates	103719	Phenyl isocyanate						6	7			
A-571		Isocyanates		> Amino Isocyanates including but not limited to:						6	7			
A-572		Isocyanates		2,4-Toluene amino isocyanate						6	7			
A-573		Isocyanates		4,2-Toluene amino isocyanate						6	7			
A-574		Isocyanates		2,6-Toluene amino isocyanate						6	7			
A-575		Isocyanates		1,6-Hexamethylene amino isocyanate						6	7			
A-576		Isocyanates		4,4-Methylenebisphenyl amino isocyanate						6	7			
A-577		Isocyanates		> Diisocyanates including but not limited to:						6	7			
A-578	e	Isocyanates	822060	1,6-Hexamethylene diisocyanate	1	2				6	7			
A-579		Isocyanates	3173726	1,5-Naphthalene diisocyanate							7			Plastic material and resin manufacturing; automotive elastomeric components

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-580		Isocyanates	91930	3,3'-Dimethoxybenzidine-4,4'-diisocyanate							7			Polymers and adhesive systems
A-581	e	Isocyanates	101688	Methylene diphenyl diisocyanate {MDI} [POM]	1	2				6	7			
A-582		Isocyanates	4098719	Isophorone diisocyanate						6	7			
A-583		Isocyanates	4098719	Isophorone diisocyanate isomers						6	7			
A-584		Isocyanates		>> Toluene diisocyanates										
A-585	e	Isocyanates	584849	2,4-Toluene diisocyanate	1	2	3	4	5			2B	cancer, neurotoxin	
A-586	e	Isocyanates	91087	2,6-Toluene diisocyanate	1	2	3	4	5			2B	cancer	
A-587		Isocyanates		> Polymeric (Oligo) HDI including but not limited to:						6	7			
A-588		Isocyanates		HDI Prepolymer						6	7			
A-589		Isocyanates		Uritidone						6	7			
A-590		Isocyanates		Isocyanurate						6	7			
A-591		Isocyanates	108190	Biuret						6	7			
A-592		Isocyanates		Diisocyanurate						6	7			
A-593	e	Lead	7439921	Lead	1		3	4		6		2B	cancer	
A-594	e	Lead (other than inorganic)	1129	Lead compounds (other than inorganic) including but not limited to:	1	2		4					cancer, DART	
A-595		Lead (other than inorganic)	78002	Tetraethyllead							7			used in leaded fuels
A-596		Lead (other than inorganic)	75741	Tetramethyllead		2*								used in leaded fuels
A-597	e	Dialkylnitrosamines	1075	Dialkylnitrosamines including but not limited to:	1									
A-598	e	Dialkylnitrosamines	924163	N-Nitrosodi-n-butylamine	1		3	4	5			2B	cancer	
A-599	e	Dialkylnitrosamines	1116547	N-Nitrosodiethanolamine	1		3	4	5			2B	cancer	
A-600	e	Dialkylnitrosamines	55185	N-Nitrosodiethylamine	1		3	4	5			2A	cancer	
A-601	e	Dialkylnitrosamines	62759	N-Nitrosodimethylamine	1	2	3	4	5			2A	cancer	
A-602	e	Dialkylnitrosamines	621647	N-Nitrosodi-n-propylamine	1		3	4	5			2B	cancer	
A-603	e	Dialkylnitrosamines	10595956	N-Nitrosomethylethylamine	1		3	4				2B	cancer	
A-604		Dialkylnitrosamines	7068839	N-Nitrosomethyl-n-butylamine				4					cancer	
A-605		Dialkylnitrosamines	75881220	N-Nitrosomethyl-n-decylamine				4					cancer	
A-606		Dialkylnitrosamines	55090443	N-Nitrosomethyl-n-dodecylamine				4					cancer	
A-607		Dialkylnitrosamines	16338991	N-Nitrosomethyl-n-heptylamine				4					cancer	
A-608		Dialkylnitrosamines	28538707	N-Nitrosomethyl-n-hexylamine				4					cancer	
A-609		Dialkylnitrosamines	75881195	N-Nitrosomethyl-n-nonylamine				4					cancer	
A-610		Dialkylnitrosamines	34423546	N-Nitrosomethyl-n-octylamine				4					cancer	
A-611		Dialkylnitrosamines	13256070	N-Nitrosomethyl-n-pentylamine				4					cancer	
A-612		Dialkylnitrosamines	924469	N-Nitrosomethyl-n-propylamine				4					cancer	
A-613		Dialkylnitrosamines	75881208	N-Nitrosomethyl-n-tetradecylamine				4					cancer	
A-614		Dialkylnitrosamines	68107266	N-Nitrosomethyl-n-undecylamine				4					cancer	
A-615		Nitrotoluenes	1321126	Nitrotoluenes including but not limited to		2*	3							
A-616		Nitrotoluenes	88722	2-Nitrotoluene			3					2A	cancer, neurotoxin	
A-617		Nitrotoluenes	118967	2,4,6-Trinitrotoluene				4					cancer	

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-618		Nitrotoluenes	99081	3-Nitrotoluene		2*				7		neurotoxin	Manufacture of dyes, toluidines, nitrobenzoic acids, agricultural and rubber chemicals.
A-619		Nitrotoluenes	99990	4-Nitrotoluene		2*				7		neurotoxin	A dyestuff intermediate in producing rubber and agricultural chemicals and explosives, and as a chemical intermediate.
A-620	e	Nitrotoluenes	25321146	> Dinitrotoluenes (mixed isomers) including but not limited to:						7			
A-621	e	Nitrotoluenes	121142	2,4-Dinitrotoluene	1	2	3	4			2B	cancer, DART, neurotoxin	
A-622	e	Nitrotoluenes	606202	2,6-Dinitrotoluene			3	4		7	2B	cancer, DART, neurotoxin	
A-623		Nitrotoluenes	618859	3,5-Dinitrotoluene						7		neurotoxin	
A-624		Nonylphenol Ethoxylates		Nonylphenol Ethoxylates						7			Commonly used in houshold paints, colorants and wood finishes; clothing and textiles; paint and stain removers; suraface and drain cleaners; indoor pesticides; food packaging; footwear, toys and games
A-625		Nonylphenol Ethoxylates	27986363	Ethanol, 2-(nonylphenoxy)-						7			[TBD]
A-626		Nonylphenol Ethoxylates	20427843	Ethanol, 2-[2-(4-nonylphenoxy)ethoxy]-						7			[TBD]
A-627		Nonylphenol Ethoxylates	27176938	Ethanol, 2-[2-(nonylphenoxy)ethoxy]-						7			[TBD]
A-628	e	PAH	--	PAHs (Polycyclic aromatic hydrocarbons) [POM] including but not limited to:	1	2							
A-629	e	PAH	1151	PAHs, total, w/o individ. components reported [PAH, POM]	1	2							
A-630	e	PAH	1150	PAHs, total, with individ. components also reported [PAH, POM]	1	2							
A-631	e	PAH	83329	Acenaphthene [PAH, POM]	1	2							
A-632	e	PAH	208968	Acenaphthylene [PAH, POM]	1								
A-633	e	PAH	120127	Anthracene [PAH, POM]	1	2				7			
A-634	e	PAH	56553	Benz[a]anthracene [PAH, POM]	1	2	3	4	5		2B	cancer	
A-635		PAH	202335	Benz[j]aceanthrylene [PAH, POM]			3				2B	cancer	
A-636		PAH	203338	Benzo(a)fluoranthene [PAH, POM]						7			
A-637	e	PAH	50328	Benzo[a]pyrene [PAH, POM]	1	2	3	4	5		2B	cancer	
A-638	e	PAH	205992	Benzo[b]fluoranthene [PAH, POM]	1	2	3	4	5		2B	cancer	
A-639		PAH	205129	Benzo[c]fluorene [PAH, POM]						7			
A-640		PAH	195197	Benzo[c]phenanthrene [PAH, POM]			3				2B	cancer	
A-641	e	PAH	192972	Benzo[e]pyrene [PAH, POM]	1								
A-642	e	PAH	191242	Benzo[g,h,i]perylene [PAH, POM]	1								
A-643	e	PAH	205823	Benzo[j]fluoranthene [PAH, POM]	1	2	3	4	5		2B	cancer	
A-644	e	PAH	207089	Benzo[k]fluoranthene [PAH, POM]	1	2	3	4	5		2B	cancer	
A-645	e	PAH	218019	Chrysene [PAH, POM]	1	2	3	4			2B	cancer	
A-646		PAH	215587	Dibenz[a,c]anthracene [PAH, POM]				4				cancer	
A-647	e	PAH	53703	Dibenz[a,h]anthracene [PAH, POM]	1	2	3	4	5		2A	cancer	
A-648		PAH	224419	Dibenz[a,j]anthracene [PAH, POM]				4				cancer	
A-649	e	PAH	192654	Dibenzo[a,e]pyrene [PAH, POM]	1	2		4	5			cancer	
A-650	e	PAH	189640	Dibenzo[a,h]pyrene [PAH, POM]	1	2	3	4	5		2B	cancer	

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-651	e	PAH	189559	Dibenzo[a,i]pyrene [PAH, POM]	1	2	3	4	5			2B	cancer	
A-652	e	PAH	191300	Dibenzo[a,l]pyrene [PAH, POM]	1	2	3	4	5			2A	cancer	
A-653		PAH	192518	Dibenzo[e,l]pyrene [PAH, POM]							7			
A-654	e	PAH	206440	Fluoranthene [PAH, POM]	1								cancer	
A-655	e	PAH	86737	Fluorene [PAH, POM]	1								cancer	
A-656	e	PAH	193395	Indeno[1,2,3-cd]pyrene [PAH, POM]	1	2	3	4	5			2B	cancer	
A-657	e	PAH	91576	2-Methylnaphthalene [PAH, POM]	1								cancer	
A-658	e	PAH	91203	Naphthalene [PAH, POM]	1	2	3					2B	cancer, neurotoxin	
A-659	e	PAH	198550	Perylene [PAH, POM]	1								cancer	
A-660	e	PAH	85018	Phenanthrene [PAH, POM]	1								cancer	
A-661	e	PAH	129000	Pyrene [PAH, POM]	1								cancer	
A-662		PAH-Related		Other PAH-Related chemicals, shown here together to facilitate SRP review.										
A-663	e	PAH-Related	53963	2-Acetylaminofluorene [PAH-Derivative, POM]	1	2		4	5				cancer	
A-664	e	PAH-Related	117793	2-Aminoanthraquinone [PAH-Derivative, POM]	1	2		4	5				cancer	
A-665		PAH-Related	81492	1-Amino-2,4-dibromoanthraquinone			3	4	5			2B	cancer	
A-666		PAH-Related	90640805	Anthracene oil							7			
A-667		PAH-Related	90640816	Anthracene oil, anthracene paste							7			
A-668		PAH-Related	91995152	Anthracene oil, anthracene paste, anthracene fraction							7			
A-669		PAH-Related	91995174	Anthracene oil, anthracene paste, distillation lights							7			
A-670		PAH-Related	90640827	Anthracene oil, anthracene-low							7			
A-671		PAH-Related	84651	Anthraquinone		2*	3	4				2B	cancer	
A-672		PAH-Related	203123	Benzo[g,h,i]fluoranthene [PAH related]							7			
A-673		PAH-Related	86748	Carbazole [PAH-derivative, POM]		2*	3	4				2B	cancer	
A-674	e	PAH-Related	63252	Carbaryl [PAH-Derivative, POM]	1	2		4					cancer, DART, neurotoxin	
A-675		PAH-Related	91587	2-Chloronaphthalene							7			
A-676		PAH-Related	8007452	Coal Tar			3					1	cancer	
A-677	e	PAH-Related	226368	Dibenz[a,h]acridine [POM]	1	2	3	4	5			2B	cancer	
A-678	e	PAH-Related	224420	Dibenz[a,j]acridine [POM]	1	2	3	4	5			2A	cancer	
A-679	e	PAH-Related	57976	7,12-Dimethylbenz[a]anthracene [PAH-Derivative, POM]	1	2		4					cancer	
A-680	e	PAH-Related	42397648	1,6-Dinitropyrene [PAH-Derivative, POM]	1	2	3	4				2B	cancer	
A-681	e	PAH-Related	42397659	1,8-Dinitropyrene [PAH-Derivative, POM]	1	2	3	4				2B	cancer	
A-682	e	PAH-Related	129431	1-Hydroxyanthraquinone			3	4				2B	cancer	
A-683		PAH-Related	610480	Methylanthracene							7			
A-684		PAH-Related	779022	9-Methyl Anthracene							7			
A-685		PAH-Related	2422799	12-Methylbenz(a)Anthracene							7			
A-686		PAH-Related	65357699	Methylbenzopyrene							7			
A-687	e	PAH-Related	56495	3-Methylcholanthrene [PAH-Derivative, POM]	1	2		4					cancer	

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-688		PAH-Related	41637905	6-Methylchrysene [PAH-Derivative, POM]							7			
A-689	e	PAH-Related	3697243	5-Methylchrysene [PAH-Derivative, POM]	1	2	3	4	5			2B	cancer	
A-690		PAH-Related	90120	1-Methylnaphthalene							7			
A-691		PAH-Related	832699	1-Methylphenanthrene							7			
A-692		PAH-Related	2381217	1-Methylpyrene							7			
A-693		PAH-Related	2243621	1,5-Naphthalenediamine							7			
A-694	e	PAH-Related	602879	5-Nitroacenaphthene [PAH-Derivative, POM]	1	2	3	4				2B	cancer	
A-695		PAH-Related	20268513	7-Nitrobenz[a]anthracene							7			
A-696		PAH-Related	17117349	3-Nitrobenzanthrone			3					2B	cancer	Powerful mutagen found in diesel exhaust. It produced the highest score ever reported in the Ames test.
A-697		PAH-Related	63041907	6-Nitrobenzo[a]pyrene							7			
A-698	e	PAH-Related	7496028	6-Nitrochrysene [PAH-Derivative, POM]	1	2	3	4				2A	cancer	
A-699		PAH-Related	892217	3-Nitrofluoranthene							7			
A-700	e	PAH-Related	607578	2-Nitrofluorene [PAH-Derivative, POM]	1	2	3	4				2B	cancer	
A-701		PAH-Related	86577	1-Nitronaphthalene {Nitrol}		2*					7			Used in the manufacturing of dyes, drugs, perfumes, rubber, in mineral oils, petroleum oils, corrosion inhibition, etc.
A-702		PAH-Related	581895	2-Nitronaphthalene							7			
A-703		PAH-Related	20589633	3-Nitroperylene							7			
A-704	e	PAH-Related	5522430	1-Nitropyrene [PAH-Derivative, POM]	1	2	3	4				2A	cancer	
A-705		PAH-Related	789071	2-Nitropyrene							7			
A-706	e	PAH-Related	57835924	4-Nitropyrene [PAH-Derivative, POM]			3	4				2B	cancer	
A-707		Parabens		Parabens including but not limited to:							7			Parabens are used as preservatives in food, pharmaceutical, and personal care products.
A-708		Parabens	94268	Butylparaben							7			Parabens are used as preservatives in food, pharmaceutical, and personal care products.
A-709		Parabens	120478	Ethylparaben							7			Parabens are used as preservatives in food, pharmaceutical, and personal care products.
A-710		Parabens	99763	Methylparaben							7			Parabens are used as preservatives in food, pharmaceutical, and personal care products.
A-711		Parabens	94133	n-Propylparaben							7			Parabens are used as preservatives in food, pharmaceutical, and personal care products.
A-712	e	p-Chloro-o-toluidines	95692	p-Chloro-o-toluidine and its salts			3	4				2A	cancer	
A-713		Perfluoro and Polyfluoro compounds		Perfluoro and Polyfluoro compounds including but not limited to:										
A-714		Perfluoro and Polyfluoro compounds		1,1,2,2-Tetrafluoro-2-({1,1,1,2,3,3-hexafluoro-3-[(trifluorovinyl)oxy]-2-propanyl}oxy)ethane sulfonic acid							7			
A-715		Perfluoro and Polyfluoro compounds		10:2 Fluorotelomer acetate							7			
A-716		Perfluoro and Polyfluoro compounds		10:2 Fluorotelomer acrylate							7			
A-717		Perfluoro and Polyfluoro compounds		10:2 Fluorotelomer carboxylic acid							7			

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-718		Perfluoro and Polyfluoro compounds		10:2 Fluorotelomer unsaturated carboxylic acid							7			
A-719		Perfluoro and Polyfluoro compounds		2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)propanoic acid							7			
A-720		Perfluoro and Polyfluoro compounds		4:2 Fluorotelomer sulfonic acid							7			
A-721		Perfluoro and Polyfluoro compounds		5:3 Fluorotelomer carboxylic acid {5:3 acid}							7			
A-722		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer acetate							7			
A-723		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer acrylate							7			
A-724		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer carboxylic acid							7			
A-725		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer phosphate diester {6:2 diPAP}							7			
A-726		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer phosphate monester {6:2 monoPAP}							7			
A-727		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer sulfonic acid							7			
A-728		Perfluoro and Polyfluoro compounds		6:2 Fluorotelomer unsaturated carboxylic acid							7			
A-729		Perfluoro and Polyfluoro compounds		6:2/8:2 Fluorotelomer phosphate diester {6:2/8:2 diPAP}							7			
A-730		Perfluoro and Polyfluoro compounds		7:3 Fluorotelomer carboxylic acid							7			
A-731		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer acetate							7			
A-732		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer acrylate							7			
A-733		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer carboxylic acid							7			
A-734		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer phosphate diester {8:2 diPAP}							7			
A-735		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer phosphate monoester {8:2 monoPAP}							7			
A-736		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer sulfonic acid							7			
A-737		Perfluoro and Polyfluoro compounds		8:2 Fluorotelomer unsaturated carboxylic acid							7			
A-738		Perfluoro and Polyfluoro compounds		Ammonium 4,8-dioxa-3H-perfluorononanoate {ADONA}							7			
A-739		Perfluoro and Polyfluoro compounds		Bis(perfluorohexyl)phosphinic acid							7			

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-740		Perfluoro and Polyfluoro compounds		Fluorotelomer alcohol 6:2 {FtOH 6:2}							7			
A-741		Perfluoro and Polyfluoro compounds		Fluorotelomer alcohol 8:2 {FtOH 8:2}							7			
A-742		Perfluoro and Polyfluoro compounds		Fluorotelomer sulfonate 6:2 {FtS 6:2}							7			
A-743		Perfluoro and Polyfluoro compounds		Fluorotelomer sulfonate 8:2 {FtS 8:2}							7			
A-744		Perfluoro and Polyfluoro compounds		N-(Heptadecafluorooctylsulfonyl)-N-methylglycine {NMeFOSAA}							7			
A-745		Perfluoro and Polyfluoro compounds		N-ethyl-N-((heptadecafluorooctyl)sulfonyl)glycine {NEtFOSAA}							7			
A-746		Perfluoro and Polyfluoro compounds		N-Ethyl-perfluorooctane sulfonamido acetic acid							7			
A-747		Perfluoro and Polyfluoro compounds		N-Methyl-perfluorooctane sulfonamido acetic acid							7			
A-748		Perfluoro and Polyfluoro compounds		Perfluoro sulfonamide {PFOSA}							7			
A-749		Perfluoro and Polyfluoro compounds		Perfluoro(2-methyl-3-oxahexanoic) acid {GenX}							7			
A-750		Perfluoro and Polyfluoro compounds		Perfluorobutane sulfonic acid (PFBS)							7			
A-751		Perfluoro and Polyfluoro compounds		Perfluorobutanesulfonate {PFBS}							7			
A-752		Perfluoro and Polyfluoro compounds		Perfluorobutanoic acid							7			
A-753		Perfluoro and Polyfluoro compounds		Perfluorobutyric acid {PFBA}							7			
A-754		Perfluoro and Polyfluoro compounds		Perfluorodecane sulfonic acid							7			
A-755		Perfluoro and Polyfluoro compounds		Perfluorodecanesulfonate {PFDS}							7			
A-756		Perfluoro and Polyfluoro compounds		Perfluorodecanoic acid {PFDA}							7			
A-757		Perfluoro and Polyfluoro compounds		Perfluorodecylphosphonic acid							7			
A-758		Perfluoro and Polyfluoro compounds		Perfluorododecanoic acid {PFDoA}							7			
A-759		Perfluoro and Polyfluoro compounds		Perfluoroethylcyclohexane sulfonic acid							7			
A-760		Perfluoro and Polyfluoro compounds		Perfluoroethylcyclohexane sulfonic acid							7			
A-761		Perfluoro and Polyfluoro compounds		Perfluoroheptane sulfonic acid							7			

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-762		Perfluoro and Polyfluoro compounds		Perfluoroheptanesulfonate {PFHpS}							7			
A-763		Perfluoro and Polyfluoro compounds		Perfluoroheptanoic acid {PFHpA}							7			
A-764		Perfluoro and Polyfluoro compounds		Perfluorohexadecanoic acid							7			
A-765		Perfluoro and Polyfluoro compounds		Perfluorohexanesulfonate {PFHxS}							7			
A-766		Perfluoro and Polyfluoro compounds		Perfluorohexanoic acid {PFHxA}							7			
A-767		Perfluoro and Polyfluoro compounds		Perfluorohexylperfluorooctylphosphinic acid							7			
A-768		Perfluoro and Polyfluoro compounds		Perfluorohexylphosphonic acid							7			
A-769		Perfluoro and Polyfluoro compounds		Perfluoromethylheptane sulfonic acid							7			
A-770		Perfluoro and Polyfluoro compounds		Perfluorononane sulfonic acid							7			
A-771		Perfluoro and Polyfluoro compounds		Perfluorononanesulfonate {PFNS}							7			
A-772		Perfluoro and Polyfluoro compounds		Perfluorononanoic acid {PFNA}							7			
A-773		Perfluoro and Polyfluoro compounds		Perfluorooctadecanoic acid							7			
A-774		Perfluoro and Polyfluoro compounds		Perfluorooctane sulfonamide							7			
A-775		Perfluoro and Polyfluoro compounds		Perfluorooctane sulfonic acid							7			
A-776		Perfluoro and Polyfluoro compounds		Perfluorooctane sulfonyl fluoride							7			
A-777		Perfluoro and Polyfluoro compounds		Perfluorooctanesulfonate {PFOS}				4			7		DART	PFOS was an important commercial chemical that was used as a fabric protector (3M Scotchguard). PFOS was also used in fire-fighting foams. Its manufacture was stopped in 2002.
A-778	e	Perfluoro and Polyfluoro compounds	2795393	Perfluorooctanoic acid {PFOA} and its salts, esters, and sulfonates			3				7	2B	cancer	
A-779		Perfluoro and Polyfluoro compounds	335671	Perfluorooctanoic acid			3	4				2B	cancer, DART	PFOA is used in fire-fighting applications, cosmetics, greases and lubricants, paints, polishes and adhesives.
A-780		Perfluoro and Polyfluoro compounds		Perfluorooctylphosphonic acid							7			
A-781		Perfluoro and Polyfluoro compounds		Perfluoropentane sulfonic acid							7			
A-782		Perfluoro and Polyfluoro compounds		Perfluoropentanoic acid {PFPeA}							7			
A-783		Perfluoro and Polyfluoro compounds		Perfluoropentansulfonate {PFPeS}							7			

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]						IARC Group	Categorization	Uses
A-784		Perfluoro and Polyfluoro compounds		Perfluorotetradecanoic acid						7			
A-785		Perfluoro and Polyfluoro compounds		Perfluorotridecanoic acid						7			
A-786		Perfluoro and Polyfluoro compounds		Perfluoroundecanoic acid {PFUnA}						7			
A-787		Perfluoro and Polyfluoro compounds		Sodium 2-(N-ethylperfluorooctane-1- sulfonamido)ethyl phosphate						7			
A-788		Perfluoro and Polyfluoro compounds		Sodium bis-[2-(N-ethylperfluorooctane-1- sulfonamido)ethyl] phosphate						7			
A-789		Phosphine Generating Compounds	--	Phosphine generating compounds						7		pesticide†	
A-790		Phosphine Generating Compounds	20859738	Aluminum Phosphide						7		pesticide†, metal, neurotoxin	
A-791		Phosphine Generating Compounds	2168685	Bis(1-aziridinyl)morpholinophosphine sulfide						7		pesticide†	
A-792		Phosphine Generating Compounds	22398807	Indium phosphide			3	4			2A	cancer, pesticide†, metal	
A-793		Phosphine Generating Compounds	12057748	Magnesium Phosphide						7		pesticide†, metal, neurotoxin	
A-794		Phosphine Generating Compounds	638211	Phenylphosphine				4				DART, pesticide†, neurotoxin	
A-795		Phosphine Generating Compounds	57396	Tris(2-methyl-1-aziridinyl)phosphine oxide						7		pesticide†	
A-796		Phosphine Generating Compounds	1314847 51810709 12037795	Zinc Phosphide						7		pesticide†, metal, neurotoxin	
A-797		Phthalates		Phthalates									Phthalates are a group of chemicals used to make plastics more flexible and harder to break. They are often called plasticizers. Some phthalates are used as solvents (dissolving agents) for other materials. They are used in hundreds of products, such as vinyl flooring, adhesives, detergents, lubricating oils, automotive plastics, plastic clothes (raincoats), and personal-care products (soaps, shampoos, hair sprays, and nail polishes). Phthalates are used widely in polyvinyl chloride plastics, which are used to make products such as plastic packaging film and sheets, garden hoses, inflatable toys, blood-storage containers, medical tubing, and some children's toys.
A-798		Phthalates	88993	Phthalic acid		2*							Dyes, phenolphthalein, phthalimide, anthranilic acid, synthetic perfumes, laboratory reagent.
A-799		Phthalates	68515491 26761400	Di-isodecyl phthalate				4	5			DART	DiDP is a phthalate, a group of industrially important chemicals (also called phthalate esters) used to make plastics more flexible. Industrial uses include automobile undercoating, building materials, wires and cables. Consumer uses can include toys, shoes, carpet backing, pool liners, gloves and other artificial leather applications.
A-800		Phthalates		Di-isobutyl phthalate						7			Paints, lacquers and varnishes industry, paper, pulp and board industry, adhesive, binding agents, softeners, viscosity adjusters, plastificante

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-801		Phthalates	68515480	Di-isononyl phthalate							7			DiNP is a phthalate, a group of industrially important chemicals used to make plastics more flexible. It is used in garden hoses, pool liners, flooring tiles, and tarp. It has limited uses in food packaging.
A-802	e	Phthalates	85687	Butyl benzyl phthalate {BzBP}	1			4					DART	
A-803	e	Phthalates	84742	Dibutyl phthalate	1	2								
A-804	e	Phthalates	117817	Di(2-ethylhexyl) phthalate {DEHP}	1	2	3	4	5			2B	cancer, DART, neurotoxin	
A-805	e	Phthalates	131113	Dimethyl phthalate	1	2							neurotoxin	DMP is a commercially important chemical used to increase the flexibility of plastics and rubber. It is also used in rocket fuel, lacquers, coating agents, safety glass and in molding powders.
A-806	e	Phthalates	85449	Phthalic anhydride	1	2								Phthalic anhydride is an important commercial chemical that is used primarily as a starting material to make other chemicals including plasticizers (chemicals that make plastics flexible), polyester and alkyd resins, and certain pigments and dyes. Phthalic anhydride is a component of tobacco smoke, oak smoke and other combustion products.
A-807	e	Phthalates	100210	Terephthalic acid	1									Adhesives, sealants, intermediates, waxes, lubracants, paints/coatings, plasticizers, polymerization processes, solvents, polyester based composites
A-808	e	Polybrominated biphenyls	1155	Polybrominated biphenyls {PBBs{ [POM]	1	2	3	4	5			2A	cancer, DART	PBBs are used as flame retardants of the brominated flame retardant group. They are added to plastics used in products such as home electrical appliances, textiles, plastic foams, laptop cabinets, etc. to make them difficult to burn.
A-809		Polybrominated biphenyls	13654096	Decabromobiphenyl					5					Ingredient in flame retardants
A-810		Polybrominated biphenyls	61288139	Octabromobiphenyl					5					Flame retardants; Added to plastics to make them difficult to burn
A-811		Polychlorinated terphenyls	61788338	Polychlorinated terphenyls {PCTs}							7			Polychlorinated terphenyls (PCTs) have almost identical characteristics to high chlorinated PCBs: extremely stable, bioaccumulable and biomagnification through food webs might take place. PCT is especially used in investment casting waxes and as a substitute for PCB.
A-812		Throium-232 and its decay produc	7440291	Thorium-232 and its decay products			3					1	cancer	Fuel in nuclear reactors; manufacture of incandescent gas-light amntles, welding electrodes, ceramics
A-813	e	Trimethylbenzenes	25551137	Trimethylbenzenes including but not limited to:										
A-814		Trimethylbenzenes	526738	1,2,3-trimethyl benzene							7			Solvent, intermediate for dye and perfume manufacture
A-815	e	Trimethylbenzenes	95636	1,2,4-Trimethylbenzene	1									1,2,4-Trimethylbenzene is used as a solvent in manufacture of dyes, perfumes, resins and in the manufacture of pharmaceuticals. It is used as a solvent and paint thinner. Production of 1,2,4-trimethylbenzene occurs during petroleum refining as a major component of the C9 aromatic hydrocarbon fraction. It typically constitutes around 40% of the C9 fraction. Another primary use is as a gasoline additive.
A-816		Trimethylbenzenes	108678	1,3,5-trimethyl benzene						6				Used as a paint thinner, solvent, and motor fuel component. It is also used as an intermediate in manufacture of organic cheimcals, adhsives, rubber, waxes, plastics, solvent, dyes.
A-817		Xylidenes	1300738	Xylidene		2*					7			2,6-Xylidine is used to make other chemicals such as pesticides, dyes, drugs and fragrances.

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	e	Group Type	Emittent ID [Note 1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
A-818		poly- and per--fluorinated chemical functional groups	--	Substances containing any of the following functional groups of poly- and per-fluorinated chemicals							7			
A-819		poly- and per--fluorinated chemical functional groups		perfluoroalyk carbonyl, carboxylic acid, and alcohol compounds							7			
A-820		poly- and per--fluorinated chemical functional groups		perfluoroalkyl sulfonyl, sulfonic acid, sulfonate and sulfonamide compounds							7			
A-821		poly- and per--fluorinated chemical functional groups		perfluoroalkyl phosphate compounds							7			
A-822		poly- and per--fluorinated chemical functional groups		fluorotelomer-related compounds							7			
A-823		poly- and per--fluorinated chemical functional groups		per- and polyfluoroalkyl ether-based compounds							7			
A-824		poly- and per--fluorinated chemical functional groups		other PFAA precursors and related compounds - perfluoroalkyl ones							7			
A-825		poly- and per--fluorinated chemical functional groups		other PFAA precursors or related compounds - semifluorinated							7			
A-826		poly- and per--fluorinated chemical functional groups		fluoropolymers							7			
A-827		Derivatives and substituted versions of PAH compounds w/ any halogen atom	--	Derivatives and substituted versions of polycyclic aromatic compounds that contain any halogen atom (chlorine, bromine, fluorine, or iodine)							7			
A-828		Isocyanate functional groups	--	Any chemical containing the Isocyanate functional group							7			

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source List [Note 6]							IARC Group	Categorization	Uses
B-1	75887	2-Chloro-1,1,1-trifluoroethane			3					3		Blowing agent, refrigerant, and chemical intermediate
B-2		2,4-Hexadienal (89% trans, trans isomer; 11% cis, trans isomer)				4					cancer	Used as a general flavoring agent in foods
B-3	128370	Butylated hydroxytoluene (BHT)			3					3		Used as a food additive and also widely used to prevent oxidation in fluids (e.g., fuel, oil) and other materials where free radicals must be controlled.
B-4	25497294	Chlorodifluoroethane		2*								
B-5	593704	Chlorofluoromethane			3					3		Refrigerant
B-6	6459945	CI Acid Red 114			3					2B	cancer	Used to dye wool (from a weak acid bath), silk (from either a neutral or acetic acid bath), jute and leather.
B-7	2429745	CI Direct Blue 15			3					2B	cancer	Used to dye cellulose, leather, paper, cotton, silk and wool and to stain biological materials; it is also used to tint cinematographic film
B-8	108918	Cyclohexylamine		2*								
B-9	90153	Naphthol (a-)		2*								
B-10	84866	1,4-Naphthylamine sulfonic acid		2*								
B-11	75387	Vinylidene fluoride			3				7	3		Manufacture of polymers and copolymers; chemical intermediate

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Uses
C-1	106694	1,2,6-Hexanetriol		2							pharmaceutical	Pharmaceutical use
C-2	105650235	2-Amino-1-methyl-6-phenylimidazo[4,5-b]pyridine {PhIP}			3					2B	cancer	PhIP has been found in cooked beef, pork, chicken, and fish products
C-3	121664	2-Amino-5-nitrothiazole			3					3	pharmaceutical	Pharmaceutical use
C-4	50442	6-Mercaptopurine			3					3	pharmaceutical	Pharmaceutical use
C-5	602608	9-Nitroanthracene			3				7	3		[TBD]
C-6	154229182	Abiraterone acetate				4					DART, pharmaceutical	Pharmaceutical use
C-7	59665	Acetazolamide				4					DART, pharmaceutical	Pharmaceutical use
C-8	59277893	Aciclovir			3					3	pharmaceutical	Pharmaceutical use
C-9	645056	Altretamine				4					DART, pharmaceutical	Pharmaceutical use
C-10	665667	Amantadine hydrochloride				4					DART, pharmaceutical	Pharmaceutical use
C-11	---	Aminoglycosides				4					DART, pharmaceutical	Pharmaceutical use
C-12	19774824	Amiodarone hydrochloride				4					DART, pharmaceutical	Pharmaceutical use
C-13	33089611	Amitraz				4					DART, pesticide†	Known pesticidal use
C-14	14028445	Amoxapine				4					DART, pharmaceutical	Pharmaceutical use
C-15	63058	Androstenedione				4					cancer, pharmaceutical	Pharmaceutical use
C-16	--	Angiotensin converting enzyme (ACE) inhibitors				4					DART, pharmaceutical	Pharmaceutical use
C-17	117373	Anisindione				4					DART, pharmaceutical	Pharmaceutical use
C-18	29122687	Atenolol				4					DART, pharmaceutical	Pharmaceutical use
C-19	34031328	Auranofin				4					DART, pharmaceutical	Pharmaceutical use
C-20	71751412	Avermectin B1				4					DART, pesticide†	Pharmaceutical use
C-21	320672	Azacitidine			3	4	5			2A	cancer, pharmaceutical	Pharmaceutical use
C-22	800248	Aziridyl benzoquinone			3					3	pharmaceutical	Pharmaceutical use
C-23	5534098	Beclomethasone dipropionate				4					DART, pharmaceutical	Pharmaceutical use
C-24	76937	Benzilic acid		2							pharmaceutical	Pharmaceutical use
C-25	---	Benzodiazepines				4					DART, pharmaceutical	Pharmaceutical use
C-26	579442	Benzoin		2							pharmaceutical	Pharmaceutical use
C-27	120514	Benzyl benzoate		2							pharmaceutical	Pharmaceutical use
C-28	216974753	Bevacizumab				4					DART	Pharmaceutical use
C-29	143817	Butabarbital sodium				4					DART, pharmaceutical	Pharmaceutical use
C-30	298464	Carbamazepine				4					DART, pharmaceutical	Pharmaceutical use
C-31	302170	Chloral hydrate			3	4				2A	cancer, pharmaceutical	Pharmaceutical use
C-32	982570	Chloramphenicol sodium succinate				4					cancer, pharmaceutical	Pharmaceutical use
C-33	58253	Chlordiazepoxide				4					DART, pharmaceutical	Pharmaceutical use
C-34	438415	Chlordiazepoxide hydrochloride				4					DART, pharmaceutical	Pharmaceutical use

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Uses
C-35	54057	Chloroquine			3					3	pharmaceutical	Pharmaceutical use
C-36	569573	Chlorotrianisene				4					cancer, pharmaceutical	Pharmaceutical use
C-37	59865133	Ciclosporin (see Cyclosporine)			3	4				1	cancer, pharmaceutical	Pharmaceutical use
C-38	113852372	Cidofovir				4					cancer, DART, pharmaceutical	Pharmaceutical use
C-39	51481619	Cimetidine			3					3	pharmaceutical	Pharmaceutical use
C-40	4291638	Cladribine				4					DART, pharmaceutical	Pharmaceutical use
C-41	81103119	Clarithromycin				4					DART, pharmaceutical	Pharmaceutical use
C-42	637070	Clofibrate			3	4				3	cancer, pharmaceutical	Pharmaceutical use
C-43	57109907	Clorazepate dipotassium				4					DART, pharmaceutical	Pharmaceutical use
C-44	64868	Colchicine				4					DART, pharmaceutical	Pharmaceutical use
C-45	59865133	Cyclosporine			3	4				1	cancer, pharmaceutical	Pharmaceutical use
C-46	21739913	Cytembena				4					cancer, pharmaceutical	Pharmaceutical use
C-47	80080	Dapsone			3					3	pharmaceutical	Pharmaceutical use
C-48	52918635	Deltamethrin			3					3	DART, pesticide†	Known pesticidal use
C-49	439145	Diazepam			3	4				3	DART, pharmaceutical	Pharmaceutical use
C-50	364987	Diazoxide				4					DART, pharmaceutical	Pharmaceutical use
C-51	120978	Dichlorphenamide				4					DART, pharmaceutical	Pharmaceutical use
C-52	66762	Dicumarol				4					DART, pharmaceutical	Pharmaceutical use
C-53	69655056	Didanosine			3					3	pharmaceutical	Pharmaceutical use
C-54	22494424	Diflunisal				4					DART, pharmaceutical	Pharmaceutical use
C-55	20830755	Digoxin			3					2B	pharmaceutical	Pharmaceutical use
C-56	6190392	Dihydroergotamine mesylate				4					DART, pharmaceutical	Pharmaceutical use
C-57	33286225	Diltiazem hydrochloride				4					DART, pharmaceutical	Pharmaceutical use
C-58	97778	Disulfiram			3					3	pharmaceutical	Pharmaceutical use
C-59	5989275	d-Limonene			3					3	pharmaceutical	Pharmaceutical use
C-60	40762150	Doxefazepam			3					3	pharmaceutical	Pharmaceutical use
C-61	25316409	Doxorubicin hydrochloride (Adriamycin)				4					cancer, DART, pharmaceutical	Pharmaceutical use
C-62	94088854	Doxycycline calcium (internal use)				4					DART, pharmaceutical	Pharmaceutical use
C-63	24390145	Doxycycline hyclate (internal use)				4					DART, pharmaceutical	Pharmaceutical use
C-64	17086281	Doxycycline monohydrate (internal use)				4					DART, pharmaceutical	Pharmaceutical use
C-65	562107	Doxylamine succinate			3					3	pharmaceutical	Pharmaceutical use
C-66	82413205	Droloxifene			3					3	pharmaceutical	Pharmaceutical use
C-67	29975164	Estazolam			3					3	pharmaceutical	Pharmaceutical use
C-68	7280377	Estropipate				4					cancer, DART, pharmaceutical	Pharmaceutical use
C-69	536334	Ethionamide			3	4				3	DART, pharmaceutical	Pharmaceutical use
C-70	9004573	Ethylcellulose		2							pharmaceutical	Pharmaceutical use
C-71	41340254	Etodolac				4					DART, pharmaceutical	Pharmaceutical use

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Uses
C-72	121181531	Filgrastim				4					DART, pharmaceutical	Pharmaceutical use
C-73	3385033	Flunisolide				4					DART, pharmaceutical	Pharmaceutical use
C-74	1172185	Flurazepam hydrochloride				4					DART, pharmaceutical	Pharmaceutical use
C-75	5104494	Flurbiprofen				4					DART, pharmaceutical	Pharmaceutical use
C-76	54319	Furosemide (Frusemide)			3					3	pharmaceutical	Pharmaceutical use
C-77	82410320	Ganciclovir				4					cancer, DART, pharmaceutical	Pharmaceutical use
C-78	107910758	Ganciclovir sodium				4					DART, pharmaceutical	Pharmaceutical use
C-79	25812300	Gemfibrozil			3	4				3	cancer, pharmaceutical	Pharmaceutical use
C-80		Goldenseal root powder			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-81	65807025	Goserelin acetate				4					DART, pharmaceutical	Pharmaceutical use
C-82	66852548	Halobetasol propionate				4					DART, pharmaceutical	Pharmaceutical use
C-83	52868	Haloperidol				4					DART, pharmaceutical	Pharmaceutical use
C-84	100970	Hexamethylene-tetramine.		2							pharmaceutical	Pharmaceutical use
C-85		Histrelin acetate				4					DART, pharmaceutical	Pharmaceutical use
C-86	86544	Hydralazine			3					3	pharmaceutical	Pharmaceutical use
C-87	67485294	Hydramethylnon				4					DART, pesticide†	Known pesticidal use
C-88	58935	Hydrochlorothiazide			3					2B	cancer, pharmaceutical	Pharmaceutical use
C-89	127071	Hydroxyurea			3	4				3	DART, pharmaceutical	Pharmaceutical use
C-90	57852570	Idarubicin hydrochloride				4					DART, pharmaceutical	Pharmaceutical use
C-91	501304	Kojic acid			3					3		Cream used to lighten skin; Food additive for preventing enzymatic browning; antimicrobial agent;
C-92	74381536	Leuprolide acetate				4					DART, pharmaceutical	Pharmaceutical use
C-93	59927	Levodopa				4					DART, pharmaceutical	Pharmaceutical use
C-94	75330755	Lovastatin				4					DART, pharmaceutical	Pharmaceutical use
C-95	52766	Lynestrenol				4					cancer, pharmaceutical	Pharmaceutical use
C-96	551746	Mannomustine dihydrochloride			3					3	pharmaceutical	Pharmaceutical use
C-97	31431397	Mebendazole				4					DART, pharmaceutical	Pharmaceutical use
C-98	57534	Meprobamate				4					DART, pharmaceutical	Pharmaceutical use
C-99	20354261	Methazole				4					DART, pharmaceutical	Pharmaceutical use
C-100	59122462	Misoprostol				4					DART, pharmaceutical	Pharmaceutical use
C-101	65271809	Mitoxantrone			3					2B	pharmaceutical	Pharmaceutical use
C-102	11380347	MOPP (vincristine-prednisone-nitrogen mustard-procarbazine mixture)				4					cancer, pharmaceutical	Pharmaceutical use
C-103	389082	Nalidixic acid				4					cancer, pharmaceutical	Pharmaceutical use
C-104	21829254	Nifedipine				4					DART, pharmaceutical	Pharmaceutical use
C-105	66085594	Nimodipine				4					DART, pharmaceutical	Pharmaceutical use
C-106	139946	Nithiazide			3					3	pharmaceutical	Pharmaceutical use

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Uses
C-107	51989	Norethisterone acetate (Norethindrone acetate)				4					DART, pharmaceutical	Pharmaceutical use
C-108	68235	Norethynodrel				4					cancer, pharmaceutical	Pharmaceutical use
C-109	604751	Oxazepam			3	4				2B	cancer, DART, pharmaceutical	Pharmaceutical use
C-110	129204	Oxyphenbutazone			3					3	pharmaceutical	Pharmaceutical use
C-111	2058460	Oxytetracycline hydrochloride (internal use)				4					DART, pharmaceutical	Pharmaceutical use
C-112	33069624	Paclitaxel				4					DART, pharmaceutical	Pharmaceutical use
C-113	150130	para-Aminobenzoic acid			3					3	pharmaceutical	Pharmaceutical use
C-114	37319178 116001968	Pentosan polysulfate sodium			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-115	53910251	Pentostatin				4					DART, pharmaceutical	Pharmaceutical use
C-116	380610275	Pertuzumab				4					DART, pharmaceutical	Pharmaceutical use
C-117	156514	Phenelzine sulfate			3					3	pharmaceutical	Pharmaceutical use
C-118	103037	Phenicarbazide			3					3	pharmaceutical	Pharmaceutical use
C-119	435972	Phenprocoumon				4					DART, pharmaceutical	Pharmaceutical use
C-120	50339	Phenylbutazone			3					3	pharmaceutical	Pharmaceutical use
C-121	108736	Phloroglucinol		2							pharmaceutical	Pharmaceutical use
C-122	2062784	Pimozide				4					DART, pharmaceutical	Pharmaceutical use
C-123	81131706	Pravastatin sodium				4					DART, pharmaceutical	Pharmaceutical use
C-124	2955386	Prazepam			3					3	pharmaceutical	Pharmaceutical use
C-125	29069247	Prednimustine			3					3	pharmaceutical	Pharmaceutical use
C-126	125020	Prednisolone sodium phosphate				4					DART, pharmaceutical	Pharmaceutical use
C-127	125337	Primidone			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-128	671169	Procarbazine				4					cancer, pharmaceutical	Pharmaceutical use
C-129	51025	Pronetalol hydrochloride			3					3	pharmaceutical	Pharmaceutical use
C-130	58140	Pyrimethamine			3	4				3	DART, pharmaceutical	Pharmaceutical use
C-131	36735225	Quazepam				4					DART, pharmaceutical	Pharmaceutical use
C-132	108463	Resorcinol		2	3					3	pharmaceutical	Pharmaceutical use
C-133	23246960	Riddelliine			3	4	5			2B	cancer, pharmaceutical	Pharmaceutical use
C-134	26308281	Ripazepam			3					3	pharmaceutical	Pharmaceutical use
C-135	122320734	Rosiglitazone			3					3	pharmaceutical	Pharmaceutical use
C-136	309433	Secobarbital sodium				4					DART, pharmaceutical	Pharmaceutical use
C-137	114466385	Sermorelin acetate				4					DART, pharmaceutical	Pharmaceutical use
C-138	138590	Shikimic acid			3					3		Used in pharmaceuticals; Protecting groups used in small-scale lab work
C-139	52017	Spironolactone			3	4				3	cancer, pharmaceutical	Pharmaceutical use
C-140	10418038	Stanozolol				4					cancer, pharmaceutical	Pharmaceutical use
C-141	110-15-6	Succinic acid		2								
C-142	127695	Sulfafurazole (Sulfisoxazole)			3					3	pharmaceutical	Pharmaceutical use

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Uses
C-143	723466	Sulfamethoxazole			3					3	pharmaceutical	Pharmaceutical use
C-144	599791	Sulfasalazine			3	4				2B	cancer, DART, pharmaceutical	Pharmaceutical use
C-145	126330	Sulfolane		2							pharmaceutical	Pharmaceutical use
C-146	38194502	Sulindac				4					DART, pharmaceutical	Pharmaceutical use
C-147	52232674	Teriparatide				4					cancer, pharmaceutical	Pharmaceutical use
C-148	58208	Testosterone cypionate				4					DART, pharmaceutical	Pharmaceutical use
C-149	---	Tetracyclines (internal use)				4					DART, pharmaceutical	Pharmaceutical use
C-150	58559	Theophylline			3					3	pharmaceutical	Pharmaceutical use
C-151	141902	Thiouracil			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-152	97240794	Topiramate				4					DART, pharmaceutical	Pharmaceutical use
C-153	89778267	Toremifene			3					3	pharmaceutical	Pharmaceutical use
C-154	396010	Triamterene			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-155	817094	Trichlormethine (Trimustine hydrochloride)			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-156	1954285	Triethylene glycol diglycidyl ether			3					3		Pharmaceutical use
C-157	82952645	Trimetrexate glucuronate				4					DART, pharmaceutical	Pharmaceutical use
C-158	97048130	Urofollitropin				4					DART, pharmaceutical	Pharmaceutical use
C-159	12001795	Vitamin K substances			3					3	pharmaceutical	Pharmaceutical use
C-160	7481892	Zalcitabine			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-161	30516871	Zidovudine (AZT)			3	4				2B	cancer, pharmaceutical	Pharmaceutical use
C-162	111406872	Zileuton				4					cancer, DART, pharmaceutical	Pharmaceutical use

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-1	76131	1,2,2-trifluoroethane		2*							<Not compelling airborne toxicity and/or uses>
D-2	13483186	1,2-Bis(chloromethoxy)ethane			3				3		<Not compelling airborne toxicity and/or uses; OEHHA
D-3	2451629	1,3,5-Triglycidyl-s-triazinetrione				4				DART	<Delisted from Prop 65>
D-4	56894918	1,4-Bis(chloromethoxymethyl)benzene			3				3		<Not compelling airborne toxicity and/or uses; OEHHA
D-5	22349593	1,4-Dimethylphenanthrene			3				3		<IARC Group 3>
D-6	2432997	11-Aminoundecanoic acid			3				3		<IARC Group 3>
D-7	202948	11H-Benz[bc]aceanthrylene			3				3		<IARC Group 3>
D-8	207830	13H-Dibenzo[a,g]fluorene			3				3		<IARC Group 3>
D-9	3351288	1-Methylchrysene			3				3		<IARC Group 3>
D-10	1072522	2-(1-Aziridinyl)ethanol			3				3		<IARC Group 3>
D-11	51183	2,4,6-Tris(1-aziridinyl)-s-triazine			3				3		<IARC Group 3>
D-12	94826	2,4-D butyric acid				4				DART, pesticide†	<No usage per 2016 PUR>
D-13	3397624	2,4-Diamino-6-chloro-s-triazine				4				DART, pesticide†	<No usage per 2016 PUR>
D-14	492171	2,4'-Diphenyldiamine			3				3		<IARC Group 3>
D-15	120365	2,4-DP (dichloroprop) Delisted January 25, 2002				4				DART, pesticide†	<No usage per 2016 PUR>
D-16	149575	2-Ethylhexanoic acid Delisted December 13, 2013				4				DART	<Delisted from Prop 65>
D-17	3351324	2-Methylchrysene			3				3		<IARC Group 3>
D-18	33543316	2-Methylfluoranthene			3				3		<IARC Group 3>
D-19	85502234	3-(N-Nitrosomethylamino)propionaldehyde			3				3		<IARC Group 3>
D-20	141377	3,4-Epoxy-6-methylcyclohexylmethyl-3,4-epoxy-6-methylcyclo-hexanecarboxylate			3				3		<IARC Group 3>
D-21	27177088	3,6,9,12,15,18,21,24,27-Nonaoxanonacosan-1-ol, 29-(nonylphenoxy)-						7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely airborne>
D-22	26571119	3,6,9,12,15,18,21,24-Octaoxahexacosan-1-ol, 26-(nonylphenoxy)-						7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely airborne>
D-23	27177055	3,6,9,12,15,18,21-Heptaoxatricosan-l-ol, 23-(nonylphenoxy)-						7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely
D-24	20073249	3-Carbethoxypsoralen			3				3		<IARC Group 3>
D-25	3351313	3-Methylchrysene			3				3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-26	1706010	3-Methylfluoranthene			3				3		<IARC Group 3>
D-27	90370299	4,4',6-Trimethylangelicin plus ultraviolet A radiation			3				3		<IARC Group 3>
D-28	22975764	4,4'-Dimethylangelicin plus ultraviolet A radiation			3				3		<IARC Group 3>
D-29	3902714	4,5',8-Trimethylpsoralen			3				3		<IARC Group 3>
D-30	4063416	4,5'-Dimethylangelicin plus ultraviolet A radiation			3				3		<IARC Group 3>
D-31	5131602	4-Chloro-meta-phenylenediamine			3				3		<IARC Group 3>
D-32	202982	4H-Cyclopenta[def]chrysene			3				3		<IARC Group 3>
D-33	3351302	4-Methylchrysene			3				3		<IARC Group 3>
D-34	7099436	5,6-Cyclopenteno-1,2-benzanthracene			3				3		<IARC Group 3>
D-35	4657936	5-Aminoacenaphthene			3				3		<IARC Group 3>
D-36	73459037	5-Methylangelicin plus ultraviolet A radiation			3				3		<IARC Group 3>
D-37	85878633	7-Methylpyrido[3,4-c]psoralen			3				3		<IARC Group 3>
D-38	148243	8-Hydroxyquinoline			3				3	pesticide†	<IARC Group 3>
D-39	25732745	Acepyrene (3,4-dihydrocyclopenta[cd]pyrene)			3				3		<IARC Group 3>
D-40	103902	Acetaminophen (see Paracetamol)			3				3		<IARC Group 3>
D-41		Acetanilide		2*							<Not likely airborne>
D-42		acetone		2*				6			<Delisted from EPA HAPs>
D-43		Acheson process, occupational exposure associated with			3				1	cancer	<Process>
D-44	494382	Acridine orange			3				3		<IARC Group 3>
D-45	8018073	Acriflavinium chloride			3				3		<IARC Group 3>
D-46		Acrylic fibres			3				3		<IARC Group 3>
D-47	6795239	Aflatoxin M1			3				2B	cancer	<Botanical/Natural>
D-48	2757906	Agaritine			3				3		<IARC Group 3>
D-49		Alcoholic Beverage Consumption					5				<Beverage>
D-50		Alcoholic beverages			3				1	cancer	<Beverage>
D-51	---	Alcoholic beverages, when associated with alcohol abuse				4				cancer	<Beverage>
D-52	64742887	Aliphatic hydrocarbon or mineral spirits						6			<Broad group; components should be reported>
D-53	72480	Alizarin		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-54		Alkyl anthraquinones		2*							<Not compelling airborne toxicity and/or uses; OEHHA

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-55	---	Aloe Vera, non-decolorized whole leaf extract				4					cancer	<Botanical/Natural>
D-56		Aloe vera, whole leaf extract			3					2B	cancer	<Botanical/Natural>
D-57		Aluminium production			3					1	cancer	<Process>
D-58	915673	Amaranth			3					3		<IARC Group 3>
D-59	123308	Aminophenol (p-)		2*							pesticide†	<No usage per 2016 PUR>
D-60	98373	Aminophenol sulfonic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-61	69534	Ampicillin			3					3		<IARC Group 3>
D-62	51264143	Amsacrine			3	4				2B		<Not compelling airborne toxicity and/or uses; OEHHA
D-63		Anaesthetics, volatile			3					3		<IARC Group 3>
D-64	523502	Angelicin plus ultraviolet A radiation			3					3		<IARC Group 3>
D-65	191264	Anthanthrene			3					3		<IARC Group 3>
D-66		antineoplastic drugs						6				<Not compelling airborne toxicity and/or uses; OEHHA
D-67	52460	Apholate			3					3		<IARC Group 3>
D-68		Areca nut			3	4				1		<Not compelling airborne toxicity and/or uses; OEHHA
D-69	313677	Aristolochic acid			3	4	5			1	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-70	64742956	Aromatic hydrocarbon						6				<Broad group; components should be reported>
D-71	64436131	Arsenobetaine and other organic arsenic compounds that are not metabolized in humans			3					3		<IARC Group 3>
D-72	12174117	Attapulgite (see Palygorskite)			3							<Not compelling airborne toxicity and/or uses; OEHHA
D-73	12192573	Aurothioglucose			3					3		<IARC Group 3>
D-74	---	Barbiturates				4					DART	<Not an airborne toxic>
D-75	177406687	Benthiavalicarb-isopropyl				4					pesticide†	<No usage per 2016 PUR>
D-76	225116	Benz[a]acridine			3					3		<IARC Group 3>
D-77	225514	Benz[c]acridine			3					3		<IARC Group 3>
D-78	211916	Benz[l]aceanthrylene			3					3		<IARC Group 3>
D-79	98486	Benzenedisulfonic acid		2*								<Not an airborne toxic>
D-80	134816	Benzil		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-81	203338	Benzo[a]fluoranthene			3					3		<IARC Group 3>
D-82	238846	Benzo[a]fluorene			3					3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-83	214175	Benzo[b]chrysene			3				3		<IARC Group 3>
D-84	243174	Benzo[b]fluorene			3				3		<IARC Group 3>
D-85	239350	Benzo[b]naphtho[2,1-d]thiophene			3				3		<IARC Group 3>
D-86	196781	Benzo[g]chrysene			3				3		<IARC Group 3>
D-87	65850	Benzoic acid		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-88	140114	Benzyl acetate		2*	3				3		<Not compelling airborne toxicity and/or uses; OEHHA
D-89		Beta particles (see Radionuclides)			3						<Radiation>
D-90		Betel quid without tobacco			3	4			1		<Not compelling airborne toxicity and/or uses; OEHHA
D-91		Biomass fuel (primarily wood), indoor emissions from household combustion of			3				2A	cancer	<Process>
D-92		Bisulfites			3				3		<IARC Group 3>
D-93		Bitumens, occupational exposure to hard bitumens and their emissions during mastic asphalt work			3				2B	cancer	<Occupational exposure>
D-94	64742934	Bitumens, occupational exposure to oxidized bitumens and their emissions during roofing			3				2A	cancer	<Occupational exposure>
D-95	8052424	Bitumens, occupational exposure to straight-run bitumens and their emissions during road paving			3				2B	cancer	<Occupational exposure>
D-96		BK polyomavirus (BKV)			3				2B	cancer, pharmaceutical	<Not an airborne toxic>
D-97	129179	Blue VRS			3				3		<IARC Group 3>
D-98		Boot and shoe manufacture and repair (see Leather dust, Benzene)			3						<Process>
D-99		Bracken fern			3	4			2B	cancer	<Botanical/Natural>
D-100	3844459	Brilliant Blue FCF, disodium salt			3				3		<IARC Group 3>
D-101	68928701	brominated resins {2-Bis-[4-(2,3-epoxypropoxy)-dibromophenyl]-propane copolymer}					6				<Not likely airborne>
D-102	110634	Butanediol (1,4-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-103	107880	Butylene glycol (1,3-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-104	331395	Caffeic acid			3	4			2B	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-105	58082	Caffeine			3				3		<IARC Group 3>

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-106		Calcium carbide production			3					3		<IARC Group 3>
D-107	1305620	Calcium Hydroxide						6				<Not compelling airborne toxicity and/or uses; OEHHA
D-108	56257	Cantharidin			3					3		<IARC Group 3>
D-109		Carbon electrode manufacture			3					2A	cancer	<Process>
D-110	308068566	Carbon nanotubes, single-walled			3					3		<IARC Group 3>
D-111	558134	Carbon tetrabromide		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-112	3567699	Carmoisine			3					3		<IARC Group 3>
D-113		Carpentry and joinery			3					2B	cancer	<Process>
D-114	9000071	Carrageenan, native			3					3		<IARC Group 3>
D-115		Ceramic implants			3					3		<IARC Group 3>
D-116	---	Certain combined chemotherapy for lymphomas				4					cancer	<Not an airborne toxic>
D-117		Chlorinated drinking-water			3					3		<IARC Group 3>
D-118		Chlorinated paraffins of average carbon chain length C12 and average degree of chlorination approximately 60%			3					2B	cancer	<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-119	101213	Chloropropham			3					3		<IARC Group 3>
D-120	108418	Chlorotoluene (m-)		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-121	95498	Chlorotoluene (o-)		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-122	54749905	Chlorozotocin			3	4	5			2A	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-123	64902723	Chlorsulfuron [Delisted June 6, 2014]				4					DART	<Delisted from Prop 65>
D-124	57885	Cholesterol			3					3		<IARC Group 3>
D-125	532821	Chrysoidine			3					3		<IARC Group 3>
D-126	523444	CI Acid Orange 20			3					3		<IARC Group 3>
D-127	6373746	CI Acid Orange 3			3					3		<IARC Group 3>
D-128	1936158	CI Orange G			3					3		<IARC Group 3>
D-129	2425856	CI Pigment Red 3			3					3		<IARC Group 3>
D-130	24560983	cis-9,10-Epoxystearic acid			3					3		<IARC Group 3>
D-131	518752	Citrinin			3					3		<IARC Group 3>
D-132	25122467	Clobetasol propionate				4					DART	<Not an airborne toxic>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-133		Clonorchis sinensis (infection with)			3					1	cancer	<Infectious Agent>
D-134	6814580	CMNP (pyrazachlor)				4					cancer, pesticide†	<No usage per 2016 PUR>
D-135		Coal gasification			3					1	cancer	<Process>
D-136		Coal, indoor emissions from household combustion of			3					1	cancer	<Process>
D-137	65996932	Coal-tar pitch			3					1	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-138	50362	Cocaine				4					DART	<Not an airborne toxic>
D-139	68603429	Coconut oil diethanolamine condensate			3					2B	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-140	52288	Codeine phosphate				4					DART	<Not an airborne toxic>
D-141		Coffee (drinking)			3					3		<IARC Group 3>
D-142		Coke production			3					1	cancer	<Process>
D-143		Continuous glass filament (see Glass filament)			3							<Not compelling airborne toxicity and/or uses; OEHHA
D-144	10380286	Copper 8-hydroxyquinoline			3					3		<IARC Group 3>
D-145	191071	Coronene			3					3		<IARC Group 3>
D-146	91645	Coumarin			3					3		<IARC Group 3>
D-147	8002059	Crude oil			3					3		<IARC Group 3>
D-148	139059	Cyclamates (sodium cyclamate)			3					3		<IARC Group 3>
D-149	2386870	cycloaliphatic epoxy resins						6				<Broad group; components should be reported>
D-150	12663466	Cyclochlorotine			3					3		<IARC Group 3>
D-151	117102	Dantron (Chrysazin; 1,8-Dihydroxyanthraquinone)			3	4	5			2B	cancer, pesticide†	<No usage per 2016 PUR>
D-152	64733	Demeclocycline hydrochloride (internal use)				4					DART	<Not an airborne toxic>
D-153		Dental materials			3					3		<IARC Group 3>
D-154	6190654	Des-ethyl atrazine (DEA)				4					DART, pesticide†	<No usage per 2016 PUR>
D-155	25260600	Diacetoxy-2-Butene (1,4-)		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-156	83636	Diacetylaminoazotoluene			3					3		<IARC Group 3>
D-157	80080	diaminodiphenyl sulfone						6				<Not an airborne toxic>
D-158	137097 1794305	Diaminophenol hydrochloride		2*								<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-159	---	Dibenzanthracenes				4					cancer	<Broad group; components should be reported>
D-160	5385751	Dibenzo[a,e]fluoranthene			3					3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-161	192472	Dibenzo[h,rst]pentaphene			3				3		<IARC Group 3>
D-162	262124	Dibenzo-para-dioxin			3				3		<IARC Group 3>
D-163	132650	Dibenzothiophene			3				3		<IARC Group 3>
D-164	97234	Dichlorophene				4				DART, pesticide†	<No usage per 2016 PUR>
D-165	76142 1320372	Dichlorotetrafluoro-ethane		2*							<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-166	109897	Diethylamine		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-167	641485	Dihydroaceanthrylene			3				3		<IARC Group 3>
D-168	27138574	Dihydroxybenzoic acid (Resorcylic acid)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-169	115106	Dimethyl ether		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-170	108010	Dimethylaminoethanol (2-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-171	131113	Dimethylphthalate		2*							<Not compelling airborne toxicity and/or uses>
D-172	77781	Dimethylsulfate		2*							<Not compelling airborne toxicity and/or uses>
D-173		Di-o-tolyguanidine		2*							<Not compelling airborne toxicity and/or uses>
D-174	101815	Diphenyl methane		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-175	101848	Diphenyl oxide		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-176	1143380	Dithranol			3				3		<IARC Group 3>
D-177	693232	Dodecanedioic acid		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-178	123013	Dodecyl benzene (branched)		2*							<Broad group; components should be reported>
D-179	27193868	Dodecyl phenol (branched)		2*							<Broad group; components should be reported>
D-180		Dodecylaniline		2*							<Not compelling airborne toxicity and/or uses>
D-181	123013	Dodecylbenzene (n-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-182	27193868	Dodecylphenol		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-183		Dry cleaning (occupational exposures in)			3				2B	cancer	<Process>
D-184	150696	Dulcin			3				3		<IARC Group 3>
D-185		Electric fields, extremely low-frequency			3				3		<IARC Group 3>
D-186		Electric fields, static			3				3		<IARC Group 3>
D-187		Emissions from combustion of coal				4				cancer	<Process>
D-188		Emissions from high-temperature unrefined rapeseed oil				4				cancer	<Not compelling airborne toxicity and/or uses; OEHHA

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-189	15086949	Eosin			3				3		<IARC Group 3>
D-190		Epoxicanazole				4					
D-191		Epstein-Barr virus			3		5		1	cancer, pharmaceutical	<Infectious Agent>
D-192	140670	Estragole				4				cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-193		Estrogen therapy, postmenopausal			3				1	cancer	<Not an airborne toxic>
D-194		Estrogen-progestogen menopausal therapy (combined)			3	4			1	cancer	<Not an airborne toxic>
D-195	64175	ethanol					6				<Beverage>
D-196	64175	Ethanol in alcoholic beverages			3	4			1	cancer	<Beverage>
D-197	7311275	Ethanol, 2-[2-[2-[2-(4-nonylphenoxy)ethoxy]ethoxy]ethoxy]-						7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely
D-198	141435	Ethanolamine {MEA}		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-199		Ethyl alcohol in alcoholic beverages				4				DART	<Beverage>
D-200	105395	Ethyl chloroacetate		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-201	5456280	Ethyl selenac			3				3		<IARC Group 3>
D-202	20941655	Ethyl tellurac			3				3		<IARC Group 3>
D-203	75047	Ethylamine		2*							<Not compelling airborne toxicity and/or uses>
D-204	105566	Ethylcyanoacetate		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-205	96491	Ethylene carbonate		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-206	60004	Ethylenediamine tetraacetic acid		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-207	---	Etoposide in combination with cisplatin and bleomycin			3	4			1	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-208	97530	Eugenol			3				3		<IARC Group 3>
D-209	314136	Evans blue			3				3		<IARC Group 3>
D-210	2353459	Fast Green FCF			3				3		<IARC Group 3>
D-211	14484641	Ferbam			3				3		<IARC Group 3>
D-212	1309371	Ferric oxide			3				3		<IARC Group 3>
D-213		Firefighter (occupational exposure as a)			3				2B	cancer	<Process>
D-214		Fission products, including strontium-90			3				1	cancer	<Radiation>
D-215		flame retardant dust					6				<Broad group; components should be reported>
D-216		Flat-glass and specialty glass (manufacture of)			3				3		<IARC Group 3>
D-217		Fluorescent lighting			3				3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-218	16984488	Fluorides (inorganic, used in drinking-water)			3					3		<IARC Group 3>
D-219	80474142	Fluticasone propionate				4					DART	<Not an airborne toxic>
D-220		Foreign bodies (see Ceramic implants, Dental materials, Implanted foreign bodies, Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)			3							<Medical device>
D-221		Frying, emissions from high-temperature			3					2A	cancer	<Process>
D-222		Fuel oils, distillate (light)			3					3		<IARC Group 3>
D-223	110178	Fumaric acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-224		Furniture and cabinet making (see Wood dust)			3							<Process>
D-225		Fusarium graminearum, F. culmorum, and F. crookwellense, toxins derived from (zearalenone, deoxynivalenol, nivalenol, and fusarenone X)			3					3		<IARC Group 3>
D-226		Fusarium sporotrichioides, toxins derived from (T-2 toxin)			3					3		<IARC Group 3>
D-227		Gamma-Radiation (see X- and Gamma-Radiation)			3							<Radiation>
D-228	90045366	Ginkgo biloba extract			3					2B	cancer	<Botanical/Natural>
D-229		Glass filament, continuous			3					3		<IARC Group 3>
D-230	56815	Glycerol		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-231	5431334	Glycidyl oleate			3					3		<IARC Group 3>
D-232	7460846	Glycidyl stearate			3					3		<IARC Group 3>
D-233		Glycine		2*								<Not compelling airborne toxicity and/or uses>
D-234	1317608	Haematite			3					3		<IARC Group 3>
D-235		Haematite mining (underground)			3					1	cancer	<Process>
D-236		Hair colouring products (personal use of)			3					3		<IARC Group 3>
D-237		Hairdresser or barber (occupational exposure as a)			3					2A	cancer	<Process>
D-238	151677	Halothane				4					DART	<Not an airborne toxic>
D-239	33229344	HC Blue No. 2			3					3		<IARC Group 3>

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-240	2871014	HC Red No. 3			3				3		<IARC Group 3>
D-241	59820438	HC Yellow No. 4			3				3		<IARC Group 3>
D-242		Helicobacter pylori (infection with)			3				1	cancer	<Infectious Agent>
D-243		Hepatitis B Virus					5			pharmaceutical	<Infectious Agent>
D-244		Hepatitis B virus (chronic infection with)			3				1	cancer, pharmaceutical	<Infectious Agent>
D-245		Hepatitis C Virus					5			pharmaceutical	<Infectious Agent>
D-246		Hepatitis C virus (chronic infection with)			3				1	cancer, pharmaceutical	<Infectious Agent>
D-247		Hepatitis D virus			3				3	pharmaceutical	<Infectious Agent> <IARC Group 3>
D-248		Herbal remedies containing plant species of the genus Aristolochia				4					<Botanical/Natural>
D-249	592450	Hexadiene (1,4-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-250		High-temperature frying (see Frying)			3						<Process>
D-251		Household combustion of coal (see Coal, indoor emissions from household combustion)			3						<Process>
D-252		Human herpesvirus type 4 (see Epstein-Barr virus)			3					pharmaceutical	<Infectious Agent>
D-253		Human herpesvirus type 8 (see Kaposi sarcoma herpesvirus)			3					pharmaceutical	<Infectious Agent>
D-254		Human Immunodeficiency Virus Type 1					5			pharmaceutical	<Infectious Agent>
D-255		Human immunodeficiency virus type 1 (infection with)			3				1	cancer, pharmaceutical	<Infectious Agent>
D-256		Human immunodeficiency virus type 2 (infection with)			3				2B	cancer, pharmaceutical	<Infectious Agent>
D-257		Human papillomavirus genus beta (except types 5 and 8) and genus gamma			3				3	pharmaceutical	<Infectious Agent> <IARC Group 3>
D-258		Human papillomavirus type 68			3				2A	cancer, pharmaceutical	<Infectious Agent>
D-259		Human papillomavirus types 16, 18, 31, 33, 35, 39, 45, 51, 52, 56, 58, 59			3				1	cancer, pharmaceutical	<Infectious Agent>
D-260		Human papillomavirus types 26, 53, 66, 67, 70, 73, 82			3				2B	cancer, pharmaceutical	<Infectious Agent>
D-261		Human papillomavirus types 30, 34, 69, 85, 97			3				2B	cancer, pharmaceutical	<Infectious Agent>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-262		Human papillomavirus types 5 and 8 (in patients with epidermodysplasia verruciformis)			3					2B	cancer, pharmaceutical	<Infectious Agent>
D-263		Human papillomavirus types 6 and 11			3					3	pharmaceutical	<Infectious Agent>
D-264		Human Papillomaviruses: Some Genital Mucosal Type					5				pharmaceutical	<Infectious Agent>
D-265		Human T-Cell Lymphotropic Virus Type 1					5				pharmaceutical	<Infectious Agent>
D-266		Human T-cell lymphotropic virus type I			3					1	cancer, pharmaceutical	<Infectious Agent>
D-267		Human T-cell lymphotropic virus type II			3					3	pharmaceutical	<Infectious Agent>
D-268	23255938	Hycanthone mesylate			3					3		<IARC Group 3>
D-269	141311	Hydroxyadipaldehyde		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-270	26782434	Hydroxysenkirkine			3					3		<IARC Group 3>
D-271		Hypochlorite salts			3					3		<IARC Group 3>
D-272		Implanted foreign bodies of metallic chromium or titanium and of cobalt-based, chromium-based, and titanium-based alloys, stainless steel and depleted uranium			3					3		<Medical device> <IARC Group 3>
D-273		Implanted foreign bodies of metallic cobalt, metallic nickel and an alloy powder containing 66-67% nickel, 13-16% chromium, and 7% iron			3					2B	cancer	<Medical device>
D-274		Implanted foreign bodies of metallic cobalt, metallic nickel and an alloy powder containing 66-67% nickel, 13-16% chromium, and 7% iron			3					2B	cancer	<Medical device>
D-275		Ionizing radiation (all types)			3					1	cancer	<Radiation>
D-276	140923177	Iprovalicarb				4					pesticide†	<No usage per 2016 PUR>
D-277	140923257	Iprovalicarb				4					pesticide†	<No usage per 2016 PUR>
D-278		Iron and steel founding (occupational exposure during)			3					1	cancer	<Process>
D-279	1338165	Iron sorbitol-citric acid complex			3					3		<IARC Group 3>
D-280	9004517	Iron-dextrin complex			3					3		<IARC Group 3>

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-281	15503863	Isatidine			3					3		<IARC Group 3>
D-282	54853	Isonicotinic acid hydrazide (Isoniazid)			3					3		<IARC Group 3>
D-283	7027114	Isophorone nitrile		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-284	121915	Isophthalic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-285		Isopropyl oils			3					3		<IARC Group 3>
D-286	25168063	Isopropylphenol		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-287	881685581	Isopyrazam				4					cancer, pesticide†	<No usage per 2016 PUR>
D-288	141112290	Isoxaflutole				4					cancer, pesticide†	<No usage per 2016 PUR>
D-289	6870673	Jacobine			3					3		<IARC Group 3>
D-290		JC polyomavirus (JCV)			3					2B	cancer, pharmaceutical	<Infectious Agent>
D-291		Jet fuel			3					3		<IARC Group 3>
D-292	520183	Kaempferol			3					3		<IARC Group 3>
D-293	1332587	Kaolin							7		pesticide†	reviewed>
D-294		Kaposi sarcoma herpesvirus			3					1	cancer, pharmaceutical	<Infectious Agent>
D-295		Kaposi Sarcoma-Associated Herpesvirus					5				pharmaceutical	<Infectious Agent>
D-296	9000388	Kava extract			3					2B	cancer	<Beverage>
D-297		Leather goods manufacture			3					3		<IARC Group 3>
D-298		Leather tanning and processing			3					3		<IARC Group 3>
D-299		Levonorgestrel implants				4					DART	<Medical device>
D-300	5141208	Light Green SF			3					3		<IARC Group 3>
D-301	67774747	Linear alkylbenzene		2*								<Broad group; components should be reported>
D-302		Lumber and sawmill industries (including logging)			3					3		<IARC Group 3>
D-303	21884446	Luteoskyrin			3					3		<IARC Group 3>
D-304		Madder root (Rubia tinctorum)			3					3		<IARC Group 3>
D-305	632995	Magenta			3					2B	cancer	<Not compelling airborne toxicity and/or uses>
D-306		Magenta production			3					1	cancer	<Process>
D-307	1309428	Magnesium Hydroxide						6				<Not compelling airborne toxicity and/or uses; OEHHA
D-308		Magnetic fields, extremely low-frequency			3					2B	cancer	<Process>
D-309		Magnetic fields, static			3					3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-310		Malaria (caused by infection with Plasmodium falciparum in holoendemic areas)			3					2A	cancer	<Infectious Agent>
D-311	123331	Maleic hydrazide		2*	3					3		<IARC Group 3>
D-312	617481	Malic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-313	24382045	Malonaldehyde, sodium salt				4					cancer	<No commercial use>
D-314		Marijuana smoke				4					cancer	<Personal use>
D-315		Mate, hot (see Very hot beverages)			3							<Beverage>
D-316		Mate, not very hot (drinking)			3					3		<IARC Group 3>
D-317	13045948	Medphalan			3					3		<IARC Group 3>
D-318	9003081	melamine formaldehyde						6				<Not likely airborne>
D-319	110235477	Mepanipyrim				4					pesticide†	<No usage per 2016 PUR>
D-320		Merkel cell polyomavirus (MCV)			3		5			2A	cancer, pharmaceutical	<Infectious Agent>
D-321		Metabisulfites			3					3		<IARC Group 3>
D-322		Metallic implants prepared as thin smooth films			3					2B	cancer	<Medical device>
D-323	121471	Metanilic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-324	63683 26062475 58576491	Methionine		2*								<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-325	298817	Methoxsalen (8-methoxypsoralen) plus ultraviolet A radiation			3					1	cancer	<Not an airborne toxic>
D-326		Methoxsalen with Ultraviolet A Therapy					5					<Not an airborne toxic>
D-327	79209	Methyl acetate		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-328	107313	Methyl formate		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-329		METHYL IODIDE								3	pesticide†	<Banned/Not registered>
D-330	108112	Methyl isobutyl carbinol		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-331	74931	Methyl mercaptan		2*								<Not used as natural gas odorant in CA>
D-332	493527	Methyl red			3					3		<IARC Group 3>
D-333	144343	Methyl selenac			3					3	pesticide†	<IARC Group 3>
D-334	100618	Methylaniline (N-)		2*								<Not compelling airborne toxicity and/or uses; OEHHA

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-335	108872	Methylcyclohexane		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-336	25639423	Methylcyclohexanol		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-337	1331222	Methylcyclohexanone		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-338	7220793	Methylene blue			3				3		<IARC Group 3>
D-339	93152	Methyleugenol			3	4	5		2B		<Botanical/Natural>
D-340	78988	Methylglyoxal			3				3		<IARC Group 3>
D-341	79696	Methylionones (a-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-342	77758	Methylpentynol		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-343	101043372	Microcystin-LR			3				2B	cancer	<Not an airborne toxic>
D-344		Microcystis extracts			3				3		<IARC Group 3>
D-345		Mineral oils, highly-refined			3				3		<IARC Group 3>
D-346	13614987	Minocycline hydrochloride (internal use)				4				DART	<Internal use>
D-347		Modacrylic fibres			3				3		<IARC Group 3>
D-348	2212671	Molinate				4				DART, pesticide†	<Banned>
D-349	121776338	MON 13900 (furilazole)				4				cancer, pesticide†	<No usage per 2016 PUR>
D-350	71526073	MON 4660 (dichloroacetyl-1-oxa-4-azaspiro(4,5)-decane				4				cancer, pesticide†	<No usage per 2016 PUR>
D-351		MONOCROTOPHOS**								pesticide†	<Banned/Not Registered>
D-352	150685	Monuron			3				3	pesticide†	<IARC Group 3>
D-353		MOPP and other combined chemotherapy including alkylating agents			3				1	cancer	<Not an airborne toxic>
D-354	83669	Musk ambrette			3				3		<IARC Group 3>
D-355	81152	Musk xylene			3				3		<IARC Group 3>
D-356	111189323	Naphtho[1,2-b]fluoranthene			3				3		<IARC Group 3>
D-357	203203	Naphtho[2,1-a]fluoranthene			3				3		<IARC Group 3>
D-358	193099	Naphtho[2,3-e]pyrene			3				3		<IARC Group 3>
D-359	?Sulfonic Acid)	Naphtholsulfonic acid (1-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-360	81163	Naphthylamine sulfonic acid (2,1-)		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-361		Neutron radiation			3				1	cancer	<radiation>
D-362		Neutrons (see Ionizing Radiation)					5				<radiation>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-363		Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation			3					2A	cancer	<Not an airborne toxic>
D-364	10024972	nitrous oxide						6				<Criteria pollutant>
D-365	804364	Nitrovin			3					3		<IARC Group 3>
D-366	37620205	N'-Nitrosoanabasine (NAB)			3					3		<IARC Group 3>
D-367	71267226	N'-Nitrosoanatabine (NAT)			3					3		<IARC Group 3>
D-368	29291358	N-Nitrosofolic acid			3					3		<IARC Group 3>
D-369	55557012	N-Nitrosoguvacine			3					3		<IARC Group 3>
D-370	55557023	N-Nitrosoguvacoline			3					3		<IARC Group 3>
D-371	30310806	N-Nitrosohydroxyproline			3					3		<IARC Group 3>
D-372	7519360	N-Nitrosoproline			3					3		<IARC Group 3>
D-373	118399227	Nodularins			3					3		<IARC Group 3>
D-374		Non-arsenical insecticides (occupational exposures in spraying and application of)			3					2A	cancer	<Process>
D-375	79554395 68608800 1081772	Nonylbenzene (branched)		2*								<Broad group; components should be reported>
D-376	135886	N-Phenyl-2-naphthylamine			3					3		<IARC Group 3>
D-377	25038544	Nylon 6			3					3		<IARC Group 3>
D-378	789026	o,p'-DDT				4					DART, pesticide†	<No usage per 2016 PUR>
D-379	111660	Octene-1		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-380	22966796	Oestradiol mustard			3					3		<Infectious Agent> <IARC Group 3>
D-381		Opisthorchis felineus (infection with)			3					3		<Infectious Agent> <IARC Group 3>
D-382		Opisthorchis viverrini (infection with)			3					1	cancer	<Infectious Agent>
D-383		Oral contraceptives, combined				4					cancer	<Not an airborne toxic>
D-384		Oral contraceptives, combined estrogen-progestogen			3					1	cancer	<Not an airborne toxic>
D-385		Oral contraceptives, sequential				4					cancer	<Not an airborne toxic>
D-386	1936158	Orange G (see CI Orange G)			3					3		<IARC Group 3>
D-387	523444	Orange I (see CI Orange 20)			3					3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-388		Organic polymeric materials			3					3		<IARC Group 3>
D-389		Orthopaedic implants of complex composition and cardiac pacemakers			3					3		<Medical device> <IARC Group 3>
D-390		Outdoor air pollution			3					1	cancer	<Broad group; components should be reported>
D-391		Outdoor air pollution, particulate matter in			3					1	cancer	<Broad group; components should be reported>
D-392	80513	p,p'-Oxybis(benzenesulfonyl hydrazide)				4					DART	<Delisted from Prop 65>
D-393		Paint manufacture (occupational exposure in)			3					3		<IARC Group 3>
D-394		Painter (occupational exposure as a)			3					1	cancer	<Process>
D-395	12174117	Palygorskite (Attapulgite) (long fibres, > 5 micrometres)			3					2B	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-396	12174117	Palygorskite (Attapulgite)(short fibres, < 5 micrometres)			3					3		<IARC Group 3>
D-397	103902	Paracetamol (Acetaminophen)			3					3		<IARC Group 3>
D-398	123637	Paraldehyde		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-399	10048325	Parasorbic acid			3					3		<IARC Group 3>
D-400		Particulate matter in outdoor air pollution (see Outdoor air pollution, particulate matter in)			3							<Broad group; components should be reported>
D-401	149291	Patulin			3					3		<IARC Group 3>
D-402		Paving and roofing with coal-tar pitch (see Coal-tar pitch)			3							<Process>
D-403	90653	Penicillic acid			3					3		<IARC Group 3>
D-404	115775 88201290	Pentaerythritol		2*								<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-405	60102376	Petasitenine			3					3		<IARC Group 3>
D-406		Petroleum refining (occupational exposures in)			3					2A	cancer	<Process>
D-407		Petroleum Solves			3					3		<IARC Group 3>
D-408	77098	Phenolphthalein		2*	3	4	5			2B		<Not compelling airborne toxicity and/or uses; OEHHA
D-409	98679 28469730	Phenolsulfonic acids (all isomers)		2*								<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-410	91407	Phenyl anthranilic acid (all isomers)		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-411	14596373	Phosphorus-32, as phosphate			3					1	cancer	<Radioisotope>
D-412	213467	Picene			3					3		<IARC Group 3>

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-413		Pickled vegetables (traditional Asian)			3					2B	cancer	<Food>
D-414	1918021	Picloram			3					3	pesticide†	<IARC Group 3>
D-415	111025468	Pioglitazone			3	4				2A	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-416	110850	Piperazine		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-417	23103982	Pirimicarb				4					pesticide†	<No usage per 2016 PUR>
D-418	2023631	Plutonium			3					1	cancer	<Not compelling airborne toxicity and/or uses; OEHHA
D-419	51938251	Poly(oxy-1,2-ethanediyl), α-(2-isononylphenyl)-ω-hydroxy-							7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely airborne>
D-420	26027383	Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-							7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely
D-421	127087870	Poly(oxy-1,2-ethanediyl), α-(4-nonylphenyl)-ω-hydroxy-, branched							7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely airborne>
D-422	37205871	Poly(oxy-1,2-ethanediyl), α-(isononylphenyl)-ω-hydroxy-							7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely
D-423	9016459	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-							7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely
D-424	68412544	Poly(oxy-1,2-ethanediyl), α-(nonylphenyl)-ω-hydroxy-, branched							7			<Reviewed with TRI nonylphenyl ethoxylates, but not likely airborne>
D-425	9003014	Polyacrylic acid			3					3		<IARC Group 3>
D-426	9010984	Polychloroprene			3					3		<IARC Group 3>
D-427	9002884	Polyethylene			3					3		<IARC Group 3>
D-428		Polymeric implant prepared as thin smooth films (with the exception of poly-glycolic acid)			3					2B	cancer	<Medical device>
D-429	9011147	Polymethyl methacrylate			3					3		<IARC Group 3>
D-430	9016879	Polymethylene polyphenyl isocyanate			3					3		<IARC Group 3>
D-431	9003070	Polypropylene			3					3		<IARC Group 3>
D-432	9003536	Polystyrene			3					3		<IARC Group 3>
D-433	9002840	Polytetrafluoroethylene			3					3		<IARC Group 3>
D-434	9009545	Polyurethane foams			3					3		<IARC Group 3>
D-435	9003207	Polyvinyl acetate			3					3		<IARC Group 3>
D-436	9002895	Polyvinyl alcohol			3					3		<IARC Group 3>
D-437	9002862	Polyvinyl chloride			3					3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]						IARC Group	Categorization	Reason to Not Add
D-438	9003398	Polyvinyl pyrrolidone			3				3		<IARC Group 3>
D-439	4548532	Ponceau SX			3				3		<IARC Group 3>
D-440	23746341	Potassium bis(2-hydroxyethyl)dithiocarbamate			3				3		<IARC Group 3>
D-441	53032	Prednisone			3				3		<IARC Group 3>
D-442		Printing inks			3				3		<IARC Group 3>
D-443		Printing processes (occupational exposures in)			3				2B	cancer	<Process>
D-444		Processed meat (consumption of)			3				1	cancer	<Food>
D-445		Proflavine salts			3				3		<IARC Group 3>
D-446		Progestogen-only contraceptives			3				2B	cancer	<Not an airborne toxic>
D-447	23950585	Pronamide				4				cancer, pesticide†	<No usage per 2016 PUR>
D-448	1918167	Propachlor				4				pesticide†	<No usage per 2016 PUR>
D-449	139402	Propazine				4				DART, pesticide†	<No usage per 2016 PUR>
D-450	122429	Propham			3				3		<IARC Group 3>
D-451	79094	Propionic acid		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-452	108327	Propylene carbonate		2*							<EPA Safer Chemical>
D-453	57556	Propylene glycol		2*							<Not compelling airborne toxicity and/or uses; OEHHA
D-454	87625625	Ptaquiloside			3				3		<IARC Group 3>
D-455	89827	Pulegone			3	4			2B	cancer	<Botanical/Natural>
D-456		Pulp and paper manufacture			3				3		<IARC Group 3>
D-457	85878622	Pyrido[3,4-c]psoralen			3				3		<IARC Group 3>
D-458	117395	Quercetin			3				3		<IARC Group 3>
D-459	76578148	Quizalofop-ethyl				4				DART, pesticide†	<No usage per 2016 PUR>
D-460		Radiofrequency electromagnetic fields			3				2B	cancer	<Process>
D-461	13233324	Radium-224 and its decay products			3				1	cancer	<Not an airborne toxic>
D-462	13982633	Radium-226 and its decay products			3				1	cancer	<Not an airborne toxic>
D-463	15262201	Radium-228 and its decay products			3				1	cancer	<Not an airborne toxic>
D-464		Red meat (consumption of)			3				2A	cancer	<Food>
D-465	480546	Retrorsine			3				3		<IARC Group 3>
D-466	13292461	Rifampicin			3				3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-467		Rubber manufacturing industry			3					1	cancer	<Process>
D-468	23537168	Rugulosin			3					3		<IARC Group 3>
D-469	8047674	Saccharated iron oxide			3					3		<IARC Group 3>
D-470		Salicylic acid		2*								<Not an airborne toxic>
D-471		Salted fish, Chinese-style			3	4				1	cancer	<Food>
D-472	85836	Scarlet Red			3					3		<IARC Group 3>
D-473		Schistosoma haematobium (infection with)			3					1	cancer	<Infectious agent>
D-474		Schistosoma japonicum (infection with)			3					2B	cancer	<Infectious agent>
D-475		Schistosoma mansoni (infection with)			3					3		<IARC Group 3>
D-476	563417	Semicarbazide hydrochloride			3					3		<IARC Group 3>
D-477	480819	Seneciphylline			3					3		<IARC Group 3>
D-478	2318185	Senkirkine			3					3		<IARC Group 3>
D-479	15501743	Sepiolite			3					3		<IARC Group 3>
D-480		Shiftwork that involves circadian disruption			3					2A	cancer	<Process>
D-481	7631869	Silica, amorphous			3					3		<IARC Group 3>
D-482		Silicone breast implants			3					3		<IARC Group 3>
D-483	148185	Sodium diethyldithiocarbamate			3					3		<IARC Group 3>
D-484	62748	Sodium fluoroacetate				4					DART, pesticide†	<No usage per 2016 PUR>
D-485		Sodium phenate		2*								<Not compelling airborne toxicity and/or uses>
D-486		Solar radiation			3		5			1	cancer	<Radiation>
D-487		Stilbene		2*								<Not an airborne toxic>
D-488		Strong inorganic acid mists containing sulfuric acid				4	5					<Should be reported as sulfuric acid>
D-489	110156	Succinic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-490	110612	Succinonitrile		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-491	6416575	Sudan Brown RR			3					3		<IARC Group 3>
D-492	842079	Sudan I			3					3		<IARC Group 3>
D-493	3118976	Sudan II			3					3		<IARC Group 3>
D-494	85869	Sudan III			3					3		<IARC Group 3>
D-495	85869	Sudan III			3					3		<IARC Group 3>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-496	6368725	Sudan Red 7B			3					3		<IARC Group 3>
D-497	121573	Sulfanilic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-498		Sulfites			3					3		<IARC Group 3>
D-499		Sunlamps and sunbeds (see Ultraviolet-emitting tanning devices)			3		5					<Process>
D-500	2783940	Sunset Yellow FCF			3					3		<IARC Group 3>
D-501		Surgical implants (see Ceramic implants, Dental materials, Implanted foreign bodies, Metallic implants, Organic polymeric materials, Orthopaedic implants, Polymeric implants, Silicone breast implants)			3							<Medical device>
D-502		SV40 polyomavirus			3					3	pharmaceutical	<IARC Group 3>
D-503	22571955	Symphytine			3					3		<IARC Group 3>
D-504	21259201	T2-Trichothecene			3					3		<IARC Group 3>
D-505	14807966	Talc not containing asbestos or asbestiform fibres			3					3		<IARC Group 3>
D-506	14807966	Talc-based body powder (perineal use of)			3					2B	cancer	<Process> <Talc addressed already in A-I>
D-507	1401554	Tannic acid and tannins			3					3		<IARC Group 3>
D-508	526830	Tartaric acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-509		Tea			3					3		<Beverage>
D-510	29767202	Teniposide			3	4				2A	cancer, DART	<Not compelling airborne toxicity and/or uses; OEHHA
D-511	5902512	Terbacil				4					DART, pesticide†	<No usage per 2016 PUR>
D-512	8001501	Terpene polychlorinates (Strobane®)			3					3		<IARC Group 3>
D-513	8013590	tertiary amines						6				<Broad group; components should be reported>
D-514	112572	Tetraethylene-pentamine										<Not compelling airborne toxicity and/or uses; OEHHA
D-515		Textile manufacturing industry (work in)			3					2B	cancer	<Process>
D-516	83670	Theobromine			3					3		<IARC Group 3>
D-517	59669260	Thiodicarb				4					pesticide†	<No usage per 2016 PUR>
D-518		Tobacco smoke (primary)				4					DART	<Personal use>
D-519	98599	Toluenesulfonyl chloride		2*								<Not compelling airborne toxicity and/or uses; OEHHA

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-520	545062	Trichloroacetonitrile			3					3	pesticide	<IARC Group 3>
D-521	26644462	Triforine				4					DART, pesticide†	<No usage per 2016 PUR>
D-522	933482	Trimethylcyclohexanol (cis-3,3,5)										<Not compelling airborne toxicity and/or uses; OEHHA
D-523	2408379 62861885	Trimethylcyclo-hexanone (2,2,6)		2*								<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-524	15901425 32958557 32958568	Trimethylcyclo-hexylamine		2*								<Not compelling airborne toxicity and/or uses; OEHHA reviewed>
D-525	77996	Trimethylolpropane		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-526	217594	Triphenylene			3					3		<IARC Group 3>
D-527	76879	Triphenyltin hydroxide				4					cancer, pesticide†	<No usage per 2016 PUR>
D-528	24800440	Tripropylene glycol		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-529		Ultraviolet radiation (wavelengths 100-400 nm, encompassing UVA, UVB, and UVC)			3					1	cancer	<Radiation>
D-530		Ultraviolet-emitting tanning devices			3					1	cancer	<Process>
D-531		UV Radiation A (see Ultraviolet-Radiation-Related Exposures)					5					<Radiation>
D-532		UV Radiation B (see Ultraviolet-Radiation-Related Exposures)					5					<Radiation>
D-533		UV Radiation C (see Ultraviolet-Radiation-Related Exposures)					5					<Radiation>
D-534		UV Radiation, Broad Spectrum (see Ultraviolet-Radiation-Related Exposures)					5					<Radiation>
D-535	128665	Vat Yellow 4			3					3		<IARC Group 3>
D-536		Very hot beverages at above 65 °C (drinking)			3					2A	cancer	<Beverage>
D-537	9003229	Vinyl chloride-vinyl acetate copolymers			3					3		<IARC Group 3>
D-538		Welding fumes			3					1	cancer	<Process>
D-539		Wood Dust			3	4	5			1	cancer	<Should just report particulate>

Notes

e denotes a chemical that is already on the existing A-I list but is included here for context

2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list

3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.

6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.

pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

INTERNAL DELIBERATIVE DRAFT- DO NOT CITE OR DISTRIBUTE

DRAFT - Proposed Additions to AB2588's Emission Inventory Criteria and Guidelines, Appendix A

Index No.	Emittent ID Note [1]	Substance Name [Note 2]	Source Lists [Note 6]							IARC Group	Categorization	Reason to Not Add
D-540		Wood smoke (see Biomass fuel, indoor emissions from household combustion)			3							<Broad group; components should be reported>
D-541		X- and Gamma-Radiation			3					1	cancer	<Radiation>
D-542		Xanthates		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-543		X-Radiation and Gamma Radiation (see Ionizing Radiation)					5					<Radiation>
D-544	25321419	Xylene sulfonic acid		2*								<Not compelling airborne toxicity and/or uses; OEHHA
D-545	1300716	Xylenols (Mixed)		2*								<2,4-Xylenol already on A-II>
D-546	85847	Yellow AB			3					3		<IARC Group 3>
D-547	131793	Yellow OB			3					3		<IARC Group 3>
D-548	1318021	Zeolites other than erionite (clinoptilolite, phillipsite,mordenite, non-fibrous Japanese zeolite,synthetic zeolites)			3					3		<IARC Group 3>

Notes
e denotes a chemical that is already on the existing A-I list but is included here for context
2* indicates a US EPA list other than the Hazardous Air Pollutants (HAPS), generally indicating the Synthetic Organic Chemical Manufacturing Industry (SOCMI) list
3* indicates a chemical substance "in prep" or soon to be considered by IARC. CARB staff plans to track its status.
6* indicates a chemical substance that HESIS is naming as a priority. CARB staff plans to track its status.
pesticide† note: For facilities subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

NOTES TO APPENDIX A:

[1] Emittent ID (the emittent identification number) is the Chemical Abstract Service (CAS) number where available, or an ARB-assigned 4-digit emittent ID code.

A dash ("-") is shown for the Emittent ID for substances which are alphabetized under a group header or synonym elsewhere on the list. Refer to the cross reference indicated in parenthesis, "( )".

A double dash ("- -") is shown for the Emittent ID to indicate that the entry is a non-reportable group header for the substances immediately following it.

An asterisk ("*") is shown for the Emittent ID to indicate that the emissions of unspecified metal compounds shall be reported as the metal atom equivalent. See Note [7].

A pound sign ("#") is shown for the Emittent ID to indicate that the individual, component listed substances must be reported for this mixture or group.

[2] Individual substances listed under a group heading must be reported individually. Other, unspecified substances in the group must be summed and reported using the emittent ID of the group heading.

The square bracket designation, "[ ]", indicates that the substance is a component of the chemical group heading(s) within the brackets.

The braces designation, "{ }", indicates a synonym for the substance listed.

[3] The date the Board approved addition of the substance to the original list. The original list was approved by the Board in July 1988.

[4] The letter "c" indicates that for purposes of this section the substance shall be treated as a human carcinogen or potential human carcinogen.

[5] Applicable degree of accuracy (in lbs/year except where noted). Radionuclides must be reported in Curie units, and the accuracy must be considered accordingly. Refer to section VII.E. and Appendix B.

[6] Substances are required to be included on the Hot Spots list based on the following lists cited in Health & Safety Code section 44321:

1 = California Air Resources Board (44321(c));
2 = Environmental Protection Agency (44321(e));

NOTES TO APPENDIX A:

3 = International Agency for Research on Cancer; (44321(a); Labor Code section 6382(b)(1)):
4 = Governor's List of Carcinogens and Reproductive Toxicants; (44321(b); HSC section 25249.8):
5 = National Toxicology Program (44321(a));
6 = Hazard Evaluation System and Information Service (44321(d));
7 = Added pursuant to HSC section 44321 (f).

[7] Emissions of unspecified metal compounds shall be reported as the amount of the metal atom equivalent, using the metal emittent identification number for the metal itself (or the emittent identification number indicated on the table, such as for reporting inorganic versus other-than-inorganic arsenic compounds).

For unspecified metal compounds which contain two or more listed metals (e.g., zinc chromate), each component metal shall be reported as the amount of the appropriate metal atom equivalent (i.e., the zinc portion of the weight as zinc equivalent and the chromate portion as hexavalent chromium equivalent.

For specific, individually listed metal compounds (e.g., Lead chromate), emissions shall be reported for the compound (as pounds of whole compound), using the emittent identification number for that compound.

[8] Compounds of the form "X-CN", where formal dissociation can occur. Report as the amount of Cyanide equivalent in the compound using an emittent identification code of 1073.

[9] Emissions of these mixtures shall be reported as emissions of total particulate matter and total organic gas, using the following emittent identification numbers:

9901 Diesel exhaust, particulate matter	9910 Gasoline exhaust, particulate matter
9902 Diesel exhaust, total organic gas	9911 Gasoline exhaust, total organic gas

Individually listed substances from gasoline exhaust must also be reported. Emissions of diesel engine exhaust particulate matter (diesel PM), shall be reported as diesel PM using emittent ID 9901.

[10] The emittent identification number 1105 has been discontinued for all facilities reporting for the first time and for all updates. Use the listed replacement emittent identification codes 1103 and 1104.

[11] Emissions of the individual, component listed substances must be reported in addition to the total gasoline vapors emissions.

NOTES TO APPENDIX A:

[12] These lead compounds are listed here so that the inorganic lead fraction will be quantified and reported if these individual compounds cannot be quantified.

[13] PAH: (Polycyclic Aromatic Hydrocarbon) - An organic compound consisting of a fused ring structure containing at least two (2) benzene rings, and which may also contain additional fused rings not restricted exclusively to hexagonal rings.

The structure does not include any heteroatoms or substituent groups. The structure includes only carbon and hydrogen.

PAHs are a subgroup of POM and have a boiling point of greater than or equal to 100 C.

[14] PAH-DERIVATIVE: (Polycyclic Aromatic Hydrocarbon Derivative) - An organic compound consisting of a fused ring structure containing at least two (2) benzene rings, and which may also contain additional fused rings not restricted exclusively to hexagonal rings. The fused ring structure does not contain heteroatoms. The structure does contain one or more substituent groups.

PAH-Derivatives are a subgroup of POM and have a boiling point of greater than or equal to 100 C.

[15] POM: (Polycyclic Organic Matter) - Includes organic compounds with more than one benzene ring, and which have a boiling point of greater than or equal to 100 C.

[16] Radionuclides and other radioactive substances shall be reported in units of Curies per year (for annual average emissions) and in units of milliCuries per hour (for maximum hourly emissions).

[17] Emissions of Vanadium (fume or dust) shall be reported as the amount of the vanadium atom equivalent, using the identification number 7440622.

[18] The emittent identification number 1001 has been replaced with the CAS number 26148685.

[19] For facilities that are subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.

NOTE: The notation “11/06” indicates most recently added substances.