

Appendix B: LVP-VOC, Inorganic, and Group Total Ingredients for Aerosol Adhesive Products to Report

This appendix lists the **LVP-VOCs** that must be individually reported (speciated) in the Formulations section in the Aerosol Coating and Aerosol Adhesive Products Reporting Tool (2018 ART). LVP-VOC status of the materials on this list has not necessarily been validated by the California Air Resources Board (CARB), and inclusion on this list is based on information provided by manufacturers or publically available information. Organic materials that do not appear on this appendix and are not classified as a VOC or an exempt VOC can be summed into the category “Grouped LVP” in the 2018 ART.

Except for the eight inorganic compounds listed below, all other **Inorganic Compound** ingredients can be aggregated and reported as “Grouped Inorganic Compounds.” All **Grouped Totals** are also listed at the bottom of this appendix.

For further questions, email us at csmrprod@arb.ca.gov.

LVP-VOCs to Report

| Compound Name | CAS # |
|--|------------|
| 1,3-Butanediol | 107-88-0 |
| 1,4-Butanediol | 110-63-4 |
| 1,5-Pentanediol | 111-29-5 |
| 1-Tetradecene | 1120-36-1 |
| 2-Ethylhexyl Benzoate | 5444-75-7 |
| 2-Methyl-2,4-Pentanediol | 107-41-5 |
| 2-Pyrrolidone | 616-45-5 |
| 2,2,4-Trimethyl-1,3-Pentanediol Diisobutyrate | 6846-50-0 |
| 2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate (Texanol™) | 25265-77-4 |
| Benzyl Alcohol | 100-51-6 |
| Dibasic Ester (DBE-3) | N/A |
| Dibutyl Phthalate | 84-74-2 |
| Diethanolamine | 111-42-2 |
| Diethyl Phthalate | 84-66-2 |
| Diethylene Glycol | 111-46-6 |

| Compound Name | CAS # |
|---|--------------|
| Diethylene Glycol Mono(2-Ethylhexyl) Ether | 1559-36-0 |
| Diethylene Glycol Monobutyl Ether | 112-34-5 |
| Diethylene Glycol Monoethyl Ether | 111-90-0 |
| Diethylene Glycol Monoethyl Ether Acetate | 112-15-2 |
| Diethylene Glycol Monohexyl Ether | 112-59-4 |
| Diethylene Glycol n-Butyl Ether Acetate | 124-17-4 |
| Diethylene Glycol Propyl Ether | 6881-94-3 |
| Diisopropyl Adipate | 6938-94-9 |
| Dimethyl Adipate | 627-93-0 |
| Dimethyl Glutarate | 1119-40-0 |
| Dimethyl Phthalate | 131-11-3 |
| Dipropylene Glycol | 25265-71-8 |
| Dipropylene Glycol Methyl Ether Acetate | 88917-22-0 |
| Dipropylene Glycol n-Butyl Ether | 29911-28-2 |
| Dipropylene Glycol n-Propyl Ether | 29911-27-1 |
| Dipropylene Glycol Phenyl Ether | 51730-94-0 |
| Ethylene Glycol | 107-21-1 |
| Ethylene Glycol Ester | 94944-95-3 |
| Ethylene Glycol Monohexyl Ether | 112-25-4 |
| Ethylene Glycol Phenyl Ether; Phenoxyethanol | 122-99-6 |
| Glyceryn Triacetate (Triacetin) | 102-76-1 |
| Glycerol | 56-81-5 |
| Isohexadecane (Heptamethylnonane) | 4390-04-9 |
| Isopropyl Palmitate | 142-91-6 |
| Methyl Decanoate | 110-42-9 |
| Methyl Palmitate | 112-39-0 |
| N,N'-Diethyl-m-Toluamide and Isomers (DEET) | 134-62-3 |

| Compound Name | CAS # |
|---|------------------------|
| n-Heptadecane | 629-78-7 |
| n-Tridecane | 629-50-5 |
| Oxo-Decyl Acetate | 108419-34-7 |
| Oxo-Dodecyl Acetate | 108419-34-8 |
| Phthalic Anhydride | 85-44-9 |
| Propylene Glycol | 57-55-6 |
| Propylene Glycol Phenyl Ether | 770-35-4 |
| Soy Methyl Esters | 67784-80-9; 68919-53-9 |
| Triethanolamine | 102-71-6 |
| Triethylene Glycol | 112-27-6 |
| Triethylene Glycol Mono(2-Ethylhexyl) Ether | 1559-37-1 |
| Triethylene Glycol Monobutyl Ether | 143-22-6 |
| Triethylene Glycol Monoethyl Ether | 112-50-5 |
| Triethylene Glycol Monomethyl Ether | 112-35-6 |
| Triisopropanolamine | 122-20-3 |
| Tripropylene Glycol | 24800-44-0 |
| Tripropylene Glycol Methyl Ether | 25498-49-1 |
| Tripropylene Glycol n-Butyl Ether | 55934-93-5 |
| Tripropylene Glycol n-Propyl Ether | 96077-04-2 |

Hydrocarbon Solvent LVP-VOCs to Report

| Compound Name | CAS # | Trade Names | Producers |
|----------------------|-------|-------------------------|--------------------------|
| Hydrocarbon Solvent* | N/A | Aromatic 200 | Chem Central, ExxonMobil |
| Hydrocarbon Solvent* | N/A | C13-16 Paraffin | Sasol North America |
| Hydrocarbon Solvent* | N/A | CITGO Mineral Seal Oil | CITGO |
| Hydrocarbon Solvent* | N/A | Conosol® 215 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® 260 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® 340 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® 38V | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® 46V | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® 50V | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® C-170 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® C-200 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Conosol® HDW | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Drakesol® 205 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Drakesol® 220 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Drakesol® 260 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Drakesol® 305 | Calumet Penreco |
| Hydrocarbon Solvent* | N/A | Exxsol® D110 | ExxonMobil |
| Hydrocarbon Solvent* | N/A | Exxsol® D130 | ExxonMobil |
| Hydrocarbon Solvent* | N/A | Exxsol® D95 Fluid | ExxonMobil |
| Hydrocarbon Solvent* | N/A | Isopar® M | ExxonMobil |
| Hydrocarbon Solvent* | N/A | Isopar® V | ExxonMobil |
| Hydrocarbon Solvent* | N/A | LINPAR® 1416-V Paraffin | Sasol North America |
| Hydrocarbon Solvent* | N/A | LPA®-170 Solvent | Sasol North America |
| Hydrocarbon Solvent* | N/A | LPA®-210 Solvent | Sasol North America |
| Hydrocarbon Solvent* | N/A | Calumet LVP 100 | Calumet Lubricants |
| Hydrocarbon Solvent* | N/A | Calumet LVP 200 | Calumet Lubricants |

| Compound Name | CAS # | Trade Names | Producers |
|----------------------|--------------|--------------------|---------------------------------|
| Hydrocarbon Solvent* | N/A | Calumet LVP 300 | Calumet Lubricants |
| Hydrocarbon Solvent* | N/A | Calumet LVP 400 | Calumet Lubricants |
| Hydrocarbon Solvent* | N/A | Norpar® 13 | ExxonMobil |
| Hydrocarbon Solvent* | N/A | Norpar® 14 | ExxonMobil |
| Hydrocarbon Solvent* | N/A | Norpar® 15 | ExxonMobil |
| Hydrocarbon Solvent* | N/A | PD-23 | Crompton Witco Refined Products |
| Hydrocarbon Solvent* | N/A | PD-26 | Crompton Witco Refined Products |
| Hydrocarbon Solvent* | N/A | PD-28 | Crompton Witco Refined Products |
| Hydrocarbon Solvent* | N/A | Soltrol® 170 | Chevron Phillips |
| Hydrocarbon Solvent* | N/A | Soltrol® 220 | Chevron Phillips |

Inorganic Compound and Grouped Total Ingredients to Report

| Compound Name | CAS # |
|--|--------------|
| Ammonium Chloride | 12125029 |
| Ammonium Hydroxide | 1336216 |
| Carbon Dioxide | 124389 |
| Compressed Air | 132259100 |
| Fragrance | 99999999 |
| Grouped Inorganic Compounds | 99999998 |
| Grouped LVPs | 99999997 |
| Grouped VOCs that are each less than 0.1 Wt. % | 99999996 |
| Hydrogen Peroxide | 7722841 |
| Nitrogen | 7727379 |
| Nitrous Oxide | 10024972 |
| Water | 7732185 |