# SAFETY DATA SHEET

**According to 29 CFR 1910.1200**

V41124

## Section 1. Identification

**Product name** : TURINO™ Conversion Varnish Clear Tint Base
Satin Sheen

**Product code** : V41124

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Paint or paint related material.

**Manufacturer** : M. L. CAMPBELL
101 W. Prospect Avenue
Cleveland, OH 44115

**Emergency telephone number of the company** : (800) 424-9300

**Product Information Telephone Number** : (800) 364-1359

**Transportation Emergency Telephone Number** : (800) 424-9300

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 12.1% (oral), 24.5% (dermal), 20.1% (inhalation)

**GHS label elements**

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : Highly flammable liquid and vapor.
Causes serious eye damage.
May cause drowsiness or dizziness.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

## Section 2. Hazards identification

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor.

**Response** : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

**Storage** : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Supplemental label elements**

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. Contains Formaldehyde - a potential cancer hazard. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

**Hazards not otherwise classified** : DANGER: Rags, steel wool, other waste soaked with this product, and sanding residue may spontaneously catch fire if improperly discarded. Immediately place rags, steel wool, other waste soaked with this product, and sanding residue in a sealed, water-filled, metal container. Dispose of in accordance with local fire regulations.

**Hazards identified when used** : No known significant effects or critical hazards.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

| Ingredient name | Synonyms | % by weight | Identifiers |
|---|---|---|---|
| n-Butyl Acetate | Butyl acetate | ≥10 - ≤30 | 123-86-4 |
| Acetone | Propan-2-one | ≥3 - ≤7 | 67-64-1 |
| 2-Methyl-1-propanol | 2-Methylpropan-1-ol | ≥3 - ≤7 | 78-83-1 |
| Ethyl Acetate | Ethyl acetate | ≥3 - ≤7 | 141-78-6 |
| 2-Propanol | | ≥1 - ≤5 | 67-63-0 |
| Ethanol | Ethanol | ≥1 - ≤5 | 64-17-5 |
| Toluene | Toluene | ≥1 - ≤5 | 108-88-3 |
| 2-propen-1-ol, polymer with ethenylbenzene | Prop-2-en-1-ol--ethenylbenzene (1/1) | ≥1 - ≤5 | 25119-62-4 |
| Isobutylated Urea-Formaldehyde Polymer | | ≥1 - ≤5 | 68002-18-6 |
| Methyl n-Amyl Ketone | Heptan-2-one | ≥1 - ≤5 | 110-43-0 |
| Amorphous Precipitated Silica | | ≥1 - ≤5 | 112926-00-8 |
| Light Aromatic Hydrocarbons | | ≥0.1 - ≤1 | 64742-95-6 |
| 1-Methyl-2-Pyrrolidone | 1-Methylpyrrolidin-2-one | ≥0.1 - ≤1 | 872-50-4 |
| 1,3,5-Trimethylbenzene | 1,3,5-Trimethylbenzene | ≥0.1 - ≤1 | 108-67-8 |
| 1,2,4-Trimethylbenzene | 1,2,4-Trimethylbenzene | ≥0.1 - ≤1 | 95-63-6 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

# Section 3. Composition/information on ingredients

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

**Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : Can cause central nervous system (CNS) depression.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

# Section 4. First aid measures

**Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

**See toxicological information (Section 11)**

# Section 5. Fire-fighting measures

**Extinguishing media**

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

## Section 5. Fire-fighting measures

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**Remark** : Flammable liquid.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Contains a formaldehyde-based resin which, under certain conditions of use, may release formaldehyde. Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Section 7. Handling and storage

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits (OSHA United States)

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| n-Butyl Acetate | 123-86-4 | **ACGIH TLV (United States, 1/2025) [Butyl acetates]**<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 50 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 150 ppm.<br>TWA 10 hours: 710 mg/m³.<br>STEL 15 minutes: 200 ppm.<br>STEL 15 minutes: 950 mg/m³.<br>**OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 150 ppm.<br>TWA 8 hours: 710 mg/m³. |
| Acetone | 67-64-1 | **ACGIH TLV (United States, 1/2025)** A4.<br>TWA 8 hours: 250 ppm.<br>STEL 15 minutes: 500 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 250 ppm.<br>TWA 10 hours: 590 mg/m³.<br>**OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 1000 ppm.<br>TWA 8 hours: 2400 mg/m³. |
| 2-Methyl-1-propanol | 78-83-1 | **ACGIH TLV (United States, 1/2025)**<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 152 mg/m³.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 50 ppm.<br>TWA 10 hours: 150 mg/m³.<br>**OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 300 mg/m³. |
| Ethyl Acetate | 141-78-6 | **ACGIH TLV (United States, 1/2025)**<br>TWA 8 hours: 400 ppm.<br>TWA 8 hours: 1440 mg/m³.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 400 ppm.<br>TWA 10 hours: 1400 mg/m³. |

## Section 8. Exposure controls/personal protection

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| | | **OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 400 ppm.<br>TWA 8 hours: 1400 mg/m³. |
| 2-Propanol | 67-63-0 | **ACGIH TLV (United States, 1/2025)** A4.<br>TWA 8 hours: 200 ppm.<br>STEL 15 minutes: 400 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 400 ppm.<br>TWA 10 hours: 980 mg/m³.<br>STEL 15 minutes: 500 ppm.<br>STEL 15 minutes: 1225 mg/m³.<br>**OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 400 ppm.<br>TWA 8 hours: 980 mg/m³. |
| Ethanol | 64-17-5 | **ACGIH TLV (United States, 1/2025)** A3.<br>STEL 15 minutes: 1000 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 1000 ppm.<br>TWA 10 hours: 1900 mg/m³.<br>**OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 1000 ppm.<br>TWA 8 hours: 1900 mg/m³. |
| Toluene | 108-88-3 | **ACGIH TLV (United States, 1/2025)** A4.<br>Ototoxicant.<br>TWA 8 hours: 20 ppm.<br>**OSHA PEL Z2 (United States, 2/2013)**<br>TWA 8 hours: 200 ppm.<br>CEIL: 300 ppm.<br>AMP 10 minutes: 500 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 100 ppm.<br>TWA 10 hours: 375 mg/m³.<br>STEL 15 minutes: 150 ppm.<br>STEL 15 minutes: 560 mg/m³. |
| 2-propen-1-ol, polymer with ethenylbenzene | 25119-62-4 | None. |
| Isobutylated Urea-Formaldehyde Polymer | 68002-18-6 | None. |
| Methyl n-Amyl Ketone | 110-43-0 | **ACGIH TLV (United States, 1/2025)**<br>TWA 8 hours: 50 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 100 ppm.<br>TWA 10 hours: 465 mg/m³.<br>**OSHA PEL (United States, 5/2018)**<br>TWA 8 hours: 100 ppm.<br>TWA 8 hours: 465 mg/m³. |
| Amorphous Precipitated Silica | 112926-00-8 | **NIOSH REL (United States, 10/2020) [SILICA, AMORPHOUS]** NIA.<br>TWA 10 hours: 6 mg/m³.<br>**OSHA PEL Z3 (United States, 6/2016) [Silica, Amorphous]**<br>TWA 8 hours: 20 mppcf.<br>TWA 8 hours: 80 / (%$SiO_2$) mg/m³. |
| Light Aromatic Hydrocarbons | 64742-95-6 | None. |
| 1-Methyl-2-Pyrrolidone | 872-50-4 | **OARS WEEL (United States, 6/2025)**<br>Absorbed through skin.<br>TWA 8 hours: 15 ppm.<br>STEL 15 minutes: 120 mg/m³.<br>STEL 15 minutes: 30 ppm. |

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| | | TWA 8 hours: 60 mg/m³. |
| 1,3,5-Trimethylbenzene | 108-67-8 | **ACGIH TLV (United States, 1/2025) [trimethyl benzene, isomers]**<br>TWA 8 hours: 10 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 25 ppm.<br>TWA 10 hours: 125 mg/m³. |
| 1,2,4-Trimethylbenzene | 95-63-6 | **ACGIH TLV (United States, 1/2025)** A4.<br>TWA 8 hours: 10 ppm.<br>**NIOSH REL (United States, 10/2020)**<br>TWA 10 hours: 25 ppm.<br>TWA 10 hours: 125 mg/m³. |

**Occupational exposure limits (Canada)**

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| n-butyl acetate | 123-86-4 | **CA Saskatchewan Provincial (Canada, 4/2021)**<br>STEL 15 minutes: 200 ppm.<br>TWA 8 hours: 150 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025) [butyl acetate, all isomers]**<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 50 ppm.<br>**CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers]**<br>STEL 15 minutes: 150 ppm.<br>TWA 8 hours: 50 ppm.<br>**CA Quebec Provincial (Canada, 2/2024) [butyl acetates]**<br>STEV 15 minutes: 150 ppm.<br>TWAEV 8 hours: 50 ppm.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>OEL 15 minutes: 200 ppm.<br>OEL 15 minutes: 950 mg/m³.<br>OEL 8 hours: 150 ppm.<br>OEL 8 hours: 713 mg/m³. |
| acetone | 67-64-1 | **CA Saskatchewan Provincial (Canada, 4/2021)**<br>STEL 15 minutes: 750 ppm.<br>TWA 8 hours: 500 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025)**<br>TWA 8 hours: 250 ppm.<br>STEL 15 minutes: 500 ppm.<br>**CA Ontario Provincial (Canada, 6/2019)**<br>TWA 8 hours: 250 ppm.<br>STEL 15 minutes: 500 ppm.<br>**CA Quebec Provincial (Canada, 2/2024)**<br>TWAEV 8 hours: 250 ppm.<br>STEV 15 minutes: 500 ppm.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>OEL 8 hours: 1200 mg/m³.<br>OEL 15 minutes: 1800 mg/m³.<br>OEL 8 hours: 500 ppm.<br>OEL 15 minutes: 750 ppm. |
| Isobutyl alcohol | 78-83-1 | **CA Saskatchewan Provincial (Canada,** |

## Section 8. Exposure controls/personal protection

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| | | **4/2021)**<br>STEL 15 minutes: 60 ppm.<br>TWA 8 hours: 50 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025)**<br>TWA 8 hours: 50 ppm.<br>**CA Ontario Provincial (Canada, 6/2019)**<br>TWA 8 hours: 50 ppm.<br>**CA Quebec Provincial (Canada, 2/2024)**<br>TWAEV 8 hours: 50 ppm.<br>TWAEV 8 hours: 152 mg/m³.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>OEL 8 hours: 50 ppm.<br>OEL 8 hours: 152 mg/m³. |
| Isopropyl alcohol | 67-63-0 | **CA Saskatchewan Provincial (Canada, 4/2021)**<br>STEL 15 minutes: 400 ppm.<br>TWA 8 hours: 200 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025)**<br>TWA 8 hours: 200 ppm.<br>STEL 15 minutes: 400 ppm.<br>**CA Ontario Provincial (Canada, 6/2019)**<br>TWA 8 hours: 200 ppm.<br>STEL 15 minutes: 400 ppm.<br>**CA Quebec Provincial (Canada, 2/2024)**<br>TWAEV 8 hours: 200 ppm.<br>STEV 15 minutes: 400 ppm.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>OEL 15 minutes: 984 mg/m³.<br>OEL 8 hours: 200 ppm.<br>OEL 15 minutes: 400 ppm.<br>OEL 8 hours: 492 mg/m³. |
| Ethyl alcohol | 64-17-5 | **CA Saskatchewan Provincial (Canada, 4/2021)**<br>STEL 15 minutes: 1250 ppm.<br>TWA 8 hours: 1000 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025)**<br>STEL 15 minutes: 1000 ppm.<br>**CA Ontario Provincial (Canada, 6/2019)**<br>STEL 15 minutes: 1000 ppm.<br>**CA Quebec Provincial (Canada, 2/2024)**<br>C3.<br>STEV 15 minutes: 1000 ppm.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>OEL 8 hours: 1000 ppm.<br>OEL 8 hours: 1880 mg/m³. |
| toluene | 108-88-3 | **CA Saskatchewan Provincial (Canada, 4/2021)** Absorbed through skin.<br>STEL 15 minutes: 60 ppm.<br>TWA 8 hours: 50 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025)** Repr.<br>TWA 8 hours: 20 ppm.<br>**CA Ontario Provincial (Canada, 6/2019)**<br>TWA 8 hours: 20 ppm. |

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| | | **CA Quebec Provincial (Canada, 2/2024)**<br>Ototoxicant.<br>TWAEV 8 hours: 20 ppm.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>Absorbed through skin.<br>OEL 8 hours: 50 ppm.<br>OEL 8 hours: 188 mg/m³. |
| Methyl n-amyl ketone | 110-43-0 | **CA Saskatchewan Provincial (Canada, 4/2021)**<br>STEL 15 minutes: 60 ppm.<br>TWA 8 hours: 50 ppm.<br>**CA British Columbia Provincial (Canada, 8/2025)**<br>TWA 8 hours: 50 ppm.<br>**CA Ontario Provincial (Canada, 6/2019)**<br>TWA 8 hours: 25 ppm.<br>TWA 8 hours: 115 mg/m³.<br>**CA Quebec Provincial (Canada, 2/2024)**<br>TWAEV 8 hours: 50 ppm.<br>TWAEV 8 hours: 233 mg/m³.<br>**CA Alberta Provincial (Canada, 3/2023)**<br>OEL 8 hours: 233 mg/m³.<br>OEL 8 hours: 50 ppm. |
| N-Methyl pyrrolidone | 872-50-4 | **CA Ontario Provincial (Canada, 6/2019)**<br>TWA 8 hours: 400 mg/m³. |

**Occupational exposure limits (Mexico)**

| Ingredient name | CAS # | Exposure limits |
|---|---|---|
| n-Butyl Acetate | 123-86-4 | **NOM-010-STPS-2014 (Mexico, 4/2016)**<br>TWA 8 hours: 150 ppm.<br>STEL 15 minutes: 200 ppm. |
| Acetone | 67-64-1 | **NOM-010-STPS-2014 (Mexico, 4/2016)** A4.<br>TWA 8 hours: 500 ppm.<br>STEL 15 minutes: 750 ppm. |
| 2-Methyl-1-propanol | 78-83-1 | **NOM-010-STPS-2014 (Mexico, 4/2016)**<br>TWA 8 hours: 50 ppm. |
| Ethyl Acetate | 141-78-6 | **NOM-010-STPS-2014 (Mexico, 4/2016)**<br>TWA 8 hours: 400 ppm. |
| 2-Propanol | 67-63-0 | **NOM-010-STPS-2014 (Mexico, 4/2016)** A4.<br>TWA 8 hours: 200 ppm.<br>STEL 15 minutes: 400 ppm. |
| Ethanol | 64-17-5 | **NOM-010-STPS-2014 (Mexico, 4/2016)** A3.<br>STEL 15 minutes: 1000 ppm. |
| Toluene | 108-88-3 | **NOM-010-STPS-2014 (Mexico, 4/2016)** A4.<br>TWA 8 hours: 20 ppm. |
| Methyl n-Amyl Ketone | 110-43-0 | **NOM-010-STPS-2014 (Mexico, 4/2016)**<br>TWA 8 hours: 50 ppm. |

**Biological exposure indices (United States)**

# Section 8. Exposure controls/personal protection

| Ingredient name | Exposure indices |
|---|---|
| Acetone | **ACGIH BEI (United States, 1/2025)**<br>BEI: 25 mg/l, acetone [in urine]. Sampling time: end of shift. |
| 2-Propanol | **ACGIH BEI (United States, 1/2025)**<br>BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek. |
| Toluene | **ACGIH BEI (United States, 1/2025)**<br>BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift.<br>BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift.<br>BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek. |
| 1-Methyl-2-Pyrrolidone | **ACGIH BEI (United States, 1/2025)**<br>BEI: 100 mg/l, 5-hydroxy-N-methyl-2-pyrrolidone [in urine]. Sampling time: end of shift. |

**Biological exposure indices (Canada)**

No exposure indices known.

**Biological exposure indices (Mexico)**

| Ingredient name | Exposure indices |
|---|---|
| Acetone | **Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)**<br>BEI: 50 mg/L [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the work shift. |
| 2-Propanol | **Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)**<br>BEI: 40 mg/L [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the shift at the end of the work week. |
| Toluene | **Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)**<br>BEI: 0.05 mg/L, toluene [in blood]. Sampling time: sample time not specified. |

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|---|---|
| | BEI: 1.6 g/g creatinine [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], hippuric acid [in urine]. Sampling time: at the end of the work shift.<br>BEI: 0.5 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], o-cresol [in urine]. Sampling time: at the end of the work shift. |
| 1-Methyl-2-Pyrrolidone | **Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)**<br>BEI: 100 mg/L, 5-hydroxy-n-methyl-2-pyrrolidone [in urine]. Sampling time: at the end of the work shift. |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

**Skin protection**

## Section 8. Exposure controls/personal protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance**

**Physical state** : Liquid.

**Color** : Clear.

**Odor** : Not available.

**Odor threshold** : Not available.

**pH** : Not applicable.

**Melting point/freezing point** : Not available.

**Boiling point or initial boiling point and boiling range** : 55°C (131°F)

**Flash point** : Closed cup: -4°C (24.8°F) [Pensky-Martens Closed Cup]

**Evaporation rate** : 5.6 (butyl acetate = 1)

**Flammability** : Flammable liquid.

**Lower and upper explosion limit/flammability limit** : Lower: 1%
Upper: 19%

**Vapor pressure** : 24 kPa (180 mm Hg)

**Relative vapor density** : 1.5 [Air = 1]

**Relative density** : 0.96

**Density** : 0.95 g/cm³

**Solubility(ies)** :

| Media | Result |
|---|---|
| cold water | Not soluble |

**Partition coefficient: n-octanol/water** : Not applicable.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

## Section 9. Physical and chemical properties

**Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): >20.5 $mm^2/s$ (>20.5 cSt)

**Molecular weight** : Not applicable.

**Particle characteristics**

**Median particle size** : Not applicable.

**Heat of combustion** : 15.561 kJ/g

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

**Incompatible materials** : Reactive or incompatible with the following materials:
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

| Product/ingredient name | Result |
|---|---|
| n-Butyl Acetate | **Rat - Oral - LD50**<br>10768 mg/kg<br>Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver - Other changes<br>**Rabbit - Dermal - LD50**<br>>17600 mg/kg |
| Acetone | **Rat - Oral - LD50**<br>5800 mg/kg<br>Toxic effects: Behavioral - Altered sleep time (including change in righting reflex) Behavioral - Tremor |
| 2-Methyl-1-propanol | **Rat - Oral - LD50**<br>2460 mg/kg<br>**Rabbit - Dermal - LD50**<br>3400 mg/kg<br>**Rat - Inhalation - LC50 Vapor**<br>19200 $mg/m^3$ [4 hours] |
| Ethyl Acetate | **Rat - Oral - LD50**<br>5620 mg/kg |
| 2-Propanol | **Rabbit - Dermal - LD50**<br>12800 mg/kg |

# Section 11. Toxicological information

| | |
|---|---|
| | **Rat - Oral - LD50**<br>5000 mg/kg<br>Toxic effects: Behavioral - General anesthetic |
| Ethanol | **Rat - Oral - LD50**<br>7 g/kg<br>**Rat - Inhalation - LC50 Vapor**<br>124700 mg/m³ [4 hours] |
| Toluene | **Rat - Oral - LD50**<br>636 mg/kg<br>**Rat - Inhalation - LC50 Vapor**<br>49 g/m³ [4 hours] |
| Isobutylated Urea-Formaldehyde Polymer | **Rat - Oral - LD50**<br>>5 g/kg<br>Toxic effects: Olfaction - Other changes Behavioral - Somnolence (general depressed activity) Behavioral - Food intake (animal)<br>**Rabbit - Dermal - LD50**<br>>5 g/kg<br>Toxic effects: Skin After systemic exposure - Dermatitis, other |
| Methyl n-Amyl Ketone | **Rat - Oral - LD50**<br>1600 mg/kg<br>Toxic effects: Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression |
| Light Aromatic Hydrocarbons | **Rat - Oral - LD50**<br>8400 mg/kg<br>Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes |
| 1-Methyl-2-Pyrrolidone | **Rat - Oral - LD50**<br>3914 mg/kg<br>**Rabbit - Dermal - LD50**<br>8 g/kg |
| 1,3,5-Trimethylbenzene | **Rat - Oral - LD50**<br>5000 mg/kg<br>**Rat - Inhalation - LC50 Vapor**<br>24000 mg/m³ [4 hours] |
| 1,2,4-Trimethylbenzene | **Rat - Oral - LD50**<br>5 g/kg<br>**Rat - Inhalation - LC50 Vapor**<br>18000 mg/m³ [4 hours] |

**Conclusion/Summary [Product]** : Not available.

## Skin corrosion/irritation

| Product/ingredient name | Result |
|---|---|
| n-Butyl Acetate | **Rabbit - Skin - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 500 mg |
| Acetone | **Rabbit - Skin - Mild irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 500 mg<br>**Rabbit - Skin - Mild irritant**<br>Amount/concentration applied: 395 mg |
| 2-Propanol | **Rabbit - Skin - Mild irritant**<br>Amount/concentration applied: 500 mg |
| Ethanol | **Rabbit - Skin - Mild irritant** |

# Section 11. Toxicological information

| | |
|---|---|
| | Amount/concentration applied: 400 mg<br>**Rabbit - Skin - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 20 mg |
| Toluene | **Pig - Skin - Mild irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 250 uL<br>**Rabbit - Skin - Mild irritant**<br>Amount/concentration applied: 435 mg<br>**Rabbit - Skin - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 20 mg<br>**Rabbit - Skin - Moderate irritant**<br>Amount/concentration applied: 500 mg |
| Methyl n-Amyl Ketone | **Rabbit - Skin - Mild irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 14 mg |
| 1,3,5-Trimethylbenzene | **Rabbit - Skin - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 20 mg |

**Conclusion/Summary [Product]** : Not available.

**Serious eye damage/eye irritation**

| Product/ingredient name | Result |
|---|---|
| n-Butyl Acetate | **Rabbit - Eyes - Moderate irritant**<br>Amount/concentration applied: 100 mg |
| Acetone | **Human - Eyes - Mild irritant**<br>Amount/concentration applied: 186300 ppm<br>**Rabbit - Eyes - Mild irritant**<br>Amount/concentration applied: 10 uL<br>**Rabbit - Eyes - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 20 mg<br>**Rabbit - Eyes - Severe irritant**<br>Amount/concentration applied: 20 mg |
| 2-Propanol | **Rabbit - Eyes - Moderate irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 100 mg<br>**Rabbit - Eyes - Moderate irritant**<br>Amount/concentration applied: 10 mg<br>**Rabbit - Eyes - Severe irritant**<br>Amount/concentration applied: 100 mg |
| Ethanol | **Rabbit - Eyes - Mild irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 500 mg<br>**Rabbit - Eyes - Moderate irritant**<br>Duration of treatment/exposure: 0.066666667 minutes<br>Amount/concentration applied: 100 mg<br>**Rabbit - Eyes - Moderate irritant**<br>Amount/concentration applied: 100 uL<br>**Rabbit - Eyes - Severe irritant**<br>Amount/concentration applied: 500 mg<br>**Rabbit - Eyes - Mild irritant**<br>Duration of treatment/exposure: 1 hours |

# Section 11. Toxicological information

| | |
|---|---|
| | Amount/concentration applied: 50 pph |
| Toluene | **Rabbit - Eyes - Mild irritant**<br>Duration of treatment/exposure: 0.5 minutes<br>Amount/concentration applied: 100 mg<br>**Rabbit - Eyes - Mild irritant**<br>Amount/concentration applied: 870 ug<br>**Rabbit - Eyes - Severe irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 2 mg<br>**Rabbit - Eyes - Severe irritant**<br>Amount/concentration applied: 0.1 Ml |
| Isobutylated Urea-Formaldehyde Polymer | **Rabbit - Eyes - Severe irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 100 uL |
| Light Aromatic Hydrocarbons | **Rabbit - Eyes - Mild irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 100 uL |
| 1-Methyl-2-Pyrrolidone | **Rabbit - Eyes - Moderate irritant**<br>Amount/concentration applied: 100 mg |
| 1,3,5-Trimethylbenzene | **Rabbit - Eyes - Mild irritant**<br>Duration of treatment/exposure: 24 hours<br>Amount/concentration applied: 500 mg |

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

Not available.

### Skin

**Conclusion/Summary [Product]** : Not available.

### Respiratory

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Classification

# Section 11. Toxicological information

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| 2-Propanol | - | 3 | - |
| Ethanol | - | 1 | - |
| Toluene | - | 3 | - |
| Amorphous Precipitated Silica | - | 3 | - |

## Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

## Specific target organ toxicity (single exposure)

| Product/ingredient name | Result |
|---|---|
| n-Butyl Acetate | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Acetone | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| 2-Methyl-1-propanol | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Ethyl Acetate | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| 2-Propanol | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Ethanol | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Toluene | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Methyl n-Amyl Ketone | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| Light Aromatic Hydrocarbons | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| 1-Methyl-2-Pyrrolidone | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| 1,3,5-Trimethylbenzene | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| 1,2,4-Trimethylbenzene | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |

## Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Result |
|---|---|
| Toluene | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |

## Aspiration hazard

| Product/ingredient name | Result |
|---|---|

# Section 11. Toxicological information

| | |
|---|---|
| Toluene | ASPIRATION HAZARD - Category 1 |
| Light Aromatic Hydrocarbons | ASPIRATION HAZARD - Category 1 |
| 1,3,5-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| 1,2,4-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |

## Information on the likely routes of exposure

Not available.

## Potential acute health effects

**Eye contact** : Causes serious eye damage.

**Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : Can cause central nervous system (CNS) depression.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:
pain
watering
redness

**Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations

**Ingestion** : Adverse symptoms may include the following:
stomach pains
reduced fetal weight
increase in fetal deaths
skeletal malformations

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

## Potential chronic health effects

# Section 11. Toxicological information

Not available.

**Conclusion/Summary [Product]** : Not available.

**General** : May cause damage to organs through prolonged or repeated exposure.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : May damage fertility or the unborn child.

## Numerical measures of toxicity

### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| TURINO™ Conversion Varnish Clear Tint Base | 19590.2 | 44946.4 | N/A | 395.7 | N/A |
| n-Butyl Acetate | 10768 | N/A | N/A | N/A | N/A |
| Acetone | 5800 | N/A | N/A | N/A | N/A |
| 2-Methyl-1-propanol | 2460 | 3400 | N/A | N/A | N/A |
| Ethyl Acetate | 5620 | N/A | N/A | N/A | N/A |
| 2-Propanol | 5000 | 12800 | N/A | N/A | N/A |
| Ethanol | 7000 | N/A | N/A | 124.7 | N/A |
| Toluene | N/A | N/A | N/A | 49 | N/A |
| Methyl n-Amyl Ketone | 1600 | N/A | N/A | 11 | N/A |
| Light Aromatic Hydrocarbons | 8400 | N/A | N/A | N/A | N/A |
| 1-Methyl-2-Pyrrolidone | 3914 | 8000 | N/A | N/A | N/A |
| 1,3,5-Trimethylbenzene | 5000 | N/A | N/A | 24 | N/A |
| 1,2,4-Trimethylbenzene | 5000 | N/A | N/A | 18 | N/A |

# Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result |
|---|---|
| n-Butyl Acetate | **Acute - LC50 - Fresh water**<br>Fish - Fathead minnow - *Pimephales promelas*<br>Age: 31 to 32 days; Size: 21.6 mm; Weight: 0.175 g<br>18 mg/l [96 hours]<br>Effect: Mortality<br>**Acute - LC50 - Marine water**<br>Crustaceans - Brine shrimp - *Artemia salina*<br>32 mg/l [48 hours]<br>Effect: Mortality |
| Acetone | **Acute - EC50 - Fresh water**<br>Algae - Green algae - *Selenastrum sp.*<br>7200 mg/l [96 hours]<br>Effect: Population<br>**Chronic - NOEC - Marine water**<br>Algae - Green algae - *Ulva pertusa*<br>4.95 mg/l [96 hours]<br>Effect: Reproduction<br>**Chronic - NOEC - Fresh water**<br>Crustaceans - Daphnia - *Daphniidae* |

| | |
|---|---|
| | 0.016 ml/l [21 days]<br>Effect: Population<br>**Chronic - NOEC - Marine water**<br>Fish - Threespine stickleback - *Gasterosteus aculeatus* - Larvae<br>Age: 7 days<br>5 µg/l [42 days]<br>Effect: Population<br>**Acute - LC50 - Marine water**<br>ISO<br>Crustaceans - Calanoid copepod - *Acartia tonsa* - Copepodid<br>4.42589 ml/l [48 hours]<br>Effect: Mortality<br>**Acute - LC50 - Fresh water**<br>Fish - Guppy - *Poecilia reticulata*<br>Age: 4 to 12 months; Size: 2 to 10 cm; Weight: 0.5 to 14 g<br>5600 ppm [96 hours]<br>Effect: Mortality |
| 2-Methyl-1-propanol | **Acute - LC50 - Fresh water**<br>Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*<br>Weight: 1.67 g<br>1330 mg/l [96 hours]<br>Effect: Mortality<br>**Acute - LC50 - Marine water**<br>Crustaceans - Brine shrimp - *Artemia salina*<br>600 mg/l [48 hours]<br>Effect: Mortality<br>**Chronic - NOEC - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>Age: ≤24 hours<br>4 mg/l [21 days]<br>Effect: Reproduction |
| Ethyl Acetate | **Acute - LC50 - Fresh water**<br>Daphnia - Water flea - *Daphnia cucullata*<br>Age: 11 days<br>154 mg/l [48 hours]<br>Effect: Mortality<br>**Acute - LC50 - Fresh water**<br>Fish - Indian catfish - *Heteropneustes fossilis*<br>Size: 14.16 cm; Weight: 25.54 g<br>212.5 mg/l [96 hours]<br>Effect: Mortality<br>**Acute - EC50 - Fresh water**<br>Algae - Green algae - *Selenastrum sp.*<br>2500 mg/l [96 hours]<br>Effect: Population<br>**Chronic - NOEC - Fresh water**<br>Fish - Fathead minnow - *Pimephales promelas* - Embryo<br>Age: <24 hours<br>75.6 mg/l [32 days]<br>Effect: Mortality<br>**Chronic - NOEC - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>Age: ≤24 hours<br>2.4 mg/l [21 days]<br>Effect: Mortality |
| 2-Propanol | **Acute - LC50 - Marine water**<br>Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* |

## Section 12. Ecological information

| | |
|---|---|
| | 1400 mg/l [48 hours]<br>Effect: Mortality<br>**Acute - LC50 - Fresh water**<br>Fish - Harlequinfish, red rasbora - *Rasbora heteromorpha*<br>Size: 1 to 3 cm<br>4200 mg/l [96 hours]<br>Effect: Mortality |
| Ethanol | **Acute - LC50 - Fresh water**<br>Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*<br>42 mg/l [4 days]<br>Effect: Mortality<br>**Acute - EC50 - Marine water**<br>Algae - Green algae - *Ulva pertusa*<br>17.921 mg/l [96 hours]<br>Effect: Reproduction<br>**Chronic - NOEC - Marine water**<br>Algae - Green algae - *Ulva pertusa*<br>4.995 mg/l [96 hours]<br>Effect: Reproduction<br>**Chronic - NOEC - Fresh water**<br>Daphnia - Water flea - *Daphnia magna* - Neonate<br>Age: <24 hours<br>100 µl/l [21 days]<br>Effect: Mortality<br>**Chronic - NOEC - Fresh water**<br>Fish - Eastern mosquitofish - *Gambusia holbrooki* - Larvae<br>Age: 3 days<br>0.375 µl/l [12 weeks]<br>Effect: Morphology<br>**Acute - EC50 - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>2 mg/l [48 hours]<br>Effect: Intoxication |
| Toluene | **Acute - LC50 - Fresh water**<br>Fish - Coho salmon,silver salmon - *Oncorhynchus kisutch* - Fry<br>Weight: 1 g<br>5500 µg/l [96 hours]<br>Effect: Mortality<br>**Acute - EC50 - Fresh water**<br>Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)<br>6000 µg/l [48 hours]<br>Effect: Intoxication<br>**Chronic - NOEC - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>Age: ≤24 hours<br>1 mg/l [21 days]<br>Effect: Mortality<br>**Acute - EC50 - Fresh water**<br>Algae - Green algae - *Raphidocelis subcapitata*<br>12.5 mg/l [72 hours]<br>Effect: Growth |
| Methyl n-Amyl Ketone | **Acute - LC50 - Fresh water**<br>Fish - Fathead minnow - *Pimephales promelas*<br>Age: 32 days; Size: 18.4 mm; Weight: 0.095 g<br>131 mg/l [96 hours]<br>Effect: Mortality |

# Section 12. Ecological information

| | |
|---|---|
| 1-Methyl-2-Pyrrolidone | **Acute - LC50 - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>Age: <24 hours<br>1.23 ppm [48 hours]<br>Effect: Mortality<br>**Acute - LC50 - Fresh water**<br>US EPA<br>Fish - Bluegill - *Lepomis macrochirus*<br>Weight: 1.2 g<br>832 ppm [96 hours]<br>Effect: Mortality |
| 1,3,5-Trimethylbenzene | **Acute - LC50 - Marine water**<br>Crustaceans - Dungeness or edible crab - *Cancer magister* - Zoea<br>Age: 1<br>13 mg/l [48 hours]<br>Effect: Mortality<br>**Acute - LC50 - Fresh water**<br>Fish - Goldfish - *Carassius auratus*<br>Age: 1 to 1.5 years; Size: 13 to 20 cm; Weight: 20 to 80 g<br>12.52 mg/l [96 hours]<br>Effect: Mortality<br>**Chronic - NOEC - Fresh water**<br>Daphnia - Water flea - *Daphnia magna*<br>Age: ≤24 hours<br>0.4 mg/l [21 days]<br>Effect: Reproduction |
| 1,2,4-Trimethylbenzene | **Acute - LC50 - Marine water**<br>Crustaceans - Scud - *Elasmopus pectenicrus* - Adult<br>4910 µg/l [48 hours]<br>Effect: Mortality<br>**Acute - LC50 - Fresh water**<br>Fish - Fathead minnow - *Pimephales promelas*<br>Age: 34 days<br>7720 µg/l [96 hours]<br>Effect: Mortality |

**Conclusion/Summary [Product]** : Not available.

## Persistence and degradability

| Product/ingredient name | Result |
|---|---|
| Isobutylated Urea-Formaldehyde Polymer | OECD<br>7% [28 days] |

**Conclusion/Summary [Product]** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| n-Butyl Acetate | - | - | Readily |
| Acetone | - | - | Readily |
| 2-Methyl-1-propanol | - | - | Readily |
| Ethyl Acetate | - | - | Readily |
| 2-Propanol | - | - | Readily |
| Ethanol | - | - | Readily |
| Toluene | - | - | Readily |
| Isobutylated Urea-Formaldehyde Polymer | - | - | Not readily |
| Methyl n-Amyl Ketone | - | - | Readily |

## Section 12. Ecological information

| | | | |
|---|---|---|---|
| Light Aromatic Hydrocarbons | - | - | Readily |

### Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Ethyl Acetate | - | 30 | Low |
| Toluene | - | 90 | Low |
| Light Aromatic Hydrocarbons | - | 10 to 2500 | High |
| 1,3,5-Trimethylbenzene | - | 161 | Low |
| 1,2,4-Trimethylbenzene | - | 243 | Low |

### Mobility in soil

**Soil/Water partition coefficient** : Not available.

### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IATA | IMDG |
|---|---|---|---|---|---|
| **UN number** | UN1263 | UN1263 | UN1263 | UN1263 | UN1263 |
| **UN proper shipping name** | PAINT | PAINT | PAINT | PAINT | PAINT |
| **Transport hazard class(es)** | 3   | 3   | 3   | 3   | 3   |
| **Packing group** | II | II | II | II | II |
| **Environmental hazards** | No. | No. | No. | No. | No. |
| | | | | | |

# Section 14. Transport information

| | | | | | |
|---|---|---|---|---|---|
| **Additional information** | - | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). | - | - | **Emergency schedules** F-E, S-E |
| | **ERG No.** 128 | **ERG No.** 128 | **ERG No.** 128 | | |

**Special precautions for user** : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

**Transport in bulk according to IMO instruments** : Not available.

**Bulk cargo shipping name** : Not available.

# Section 15. Regulatory information

**U.S. Federal regulations** :

**SARA 313**

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production. Reporting of chemicals in this section does not necessarily indicate their presence in the final formulated product.

| Ingredient name | % by weight | CAS number |
|---|---|---|
| Polycyclic Aromatic Compounds | >0 <=0.001 | |
| Toluene | >=1 <=5 | 108-88-3 |

**California Prop. 65**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**International regulations**

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

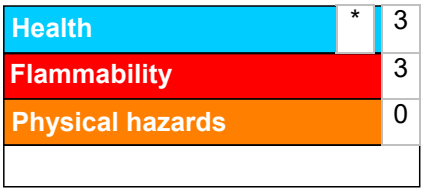
Not listed.

# Section 15. Regulatory information

**International lists** : **Australia inventory (AIIC)**: Not determined.
**China inventory (IECSC)**: Not determined.
**Japan inventory (CSCL)**: Not determined.
**Japan inventory (ISHL)**: Not determined.
**Korea inventory (KECI)**: Not determined.
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.
**Philippines inventory (PICCS)**: Not determined.
**Taiwan Chemical Substances Inventory (TCSI)**: Not determined.
**Thailand inventory**: Not determined.
**Turkey inventory**: Not determined.
**Vietnam inventory**: Not determined.

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

**Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.**

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| FLAMMABLE LIQUIDS - Category 2 | On basis of test data |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 | Calculation method |
| TOXIC TO REPRODUCTION - Category 1B | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |

## History

**Date of printing** : 11/2/2026

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**Version** : 20

**Key to abbreviations** : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

# Section 16. Other information

**Indicates information that has changed from previously issued version.**

**Notice to reader**

**It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.**