

# SAFETY DATA SHEET

CLEAR PERMA-SHINE 5° GLOSS



## Section 1. Identification

**Product name** : CLEAR PERMA-SHINE 5° GLOSS  
**Product code** : 870-005

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

|                             |
|-----------------------------|
| <b>Identified uses</b>      |
| Precatalyzed Topcoat        |
| <b>Uses advised against</b> |
| Not applicable.             |

**Supplier's details** : CANLAK Inc.  
674 Principale  
Daveluyville, QC,  
G0Z 1C0  
(819) 367-3264

**Emergency telephone number (with hours of operation)** : CANUTEC  
(613) 996-6666  
(24 hours)

## Section 2. Hazard identification

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

### GHS label elements

#### Hazard pictograms



#### Signal word

: Danger

#### Hazard statements

: Highly flammable liquid and vapor.  
Toxic if inhaled.  
Causes serious eye damage.  
Causes skin irritation.  
May damage fertility or the unborn child.  
May cause damage to organs.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

### Precautionary statements

## Section 2. Hazard identification

- Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. 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. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.
- Response** : Get medical attention if you feel unwell. IF exposed or concerned: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical attention. 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 physician.
- Storage** : Store locked up.
- Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Supplemental label elements** : Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2,3%

## Section 3. Composition/information on ingredients

- Substance/mixture** : Mixture
- Other means of identification** : Not available.

| Ingredient name             | % (w/w) | CAS number |
|-----------------------------|---------|------------|
| n-butyl acetate             | 20 - 30 | 123-86-4   |
| butan-1-ol                  | 1 - 5   | 71-36-3    |
| toluene                     | 1 - 5   | 108-88-3   |
| methanol                    | 1 - 5   | 67-56-1    |
| bis(2-ethylhexyl) phthalate | 1 - 5   | 117-81-7   |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment 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.

## Section 4. First-aid measures

- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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** : Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- 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

### 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.

## Section 4. First-aid measures

- 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<sub>2</sub>, water spray (fog) or foam.

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

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

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

**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.

## 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 or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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

## Section 6. Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry 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. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : 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.

- 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.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

| Ingredient name | Exposure limits   |
|-----------------|---|
| n-butyl acetate | <b>CA Alberta Provincial (Canada, 4/2009).</b><br>15 min OEL: 200 ppm 15 minutes.<br>15 min OEL: 950 mg/m <sup>3</sup> 15 minutes.<br>8 hrs OEL: 150 ppm 8 hours.<br>8 hrs OEL: 713 mg/m <sup>3</sup> 8 hours.<br><b>CA British Columbia Provincial (Canada, 5/2015).</b> |

## Section 8. Exposure controls/personal protection

butan-1-ol

TWA: 20 ppm 8 hours.  
**CA Ontario Provincial (Canada, 7/2015).**

TWA: 150 ppm 8 hours.

STEL: 200 ppm 15 minutes.

**CA Quebec Provincial (Canada, 1/2014).**

TWAEV: 150 ppm 8 hours.

TWAEV: 713 mg/m<sup>3</sup> 8 hours.

STEV: 200 ppm 15 minutes.

STEV: 950 mg/m<sup>3</sup> 15 minutes.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 200 ppm 15 minutes.

TWA: 150 ppm 8 hours.

**CA Alberta Provincial (Canada, 4/2009).**

8 hrs OEL: 60 mg/m<sup>3</sup> 8 hours.

8 hrs OEL: 20 ppm 8 hours.

**CA British Columbia Provincial (Canada, 5/2015).**

TWA: 15 ppm 8 hours.

C: 30 ppm

**CA Ontario Provincial (Canada, 7/2015).**

TWA: 20 ppm 8 hours.

**CA Quebec Provincial (Canada, 1/2014).**

**Absorbed through skin.**

STEV: 50 ppm 15 minutes.

STEV: 152 mg/m<sup>3</sup> 15 minutes.

**CA Saskatchewan Provincial (Canada, 7/2013).**

STEL: 30 ppm 15 minutes.

TWA: 20 ppm 8 hours.

**CA Alberta Provincial (Canada, 4/2009).**

**Absorbed through skin.**

8 hrs OEL: 50 ppm 8 hours.

8 hrs OEL: 188 mg/m<sup>3</sup> 8 hours.

**CA British Columbia Provincial (Canada, 5/2015).**

TWA: 20 ppm 8 hours.

**CA Ontario Provincial (Canada, 7/2015).**

TWA: 20 ppm 8 hours.

**CA Quebec Provincial (Canada, 1/2014).**

**Absorbed through skin.**

TWAEV: 50 ppm 8 hours.

TWAEV: 188 mg/m<sup>3</sup> 8 hours.

**CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.**

STEL: 60 ppm 15 minutes.

TWA: 50 ppm 8 hours.

**CA Alberta Provincial (Canada, 4/2009).**  
**Absorbed through skin.**

8 hrs OEL: 262 mg/m<sup>3</sup> 8 hours.

8 hrs OEL: 200 ppm 8 hours.

15 min OEL: 250 ppm 15 minutes.

15 min OEL: 328 mg/m<sup>3</sup> 15 minutes.

**CA British Columbia Provincial (Canada, 5/2015). Absorbed through skin.**

TWA: 200 ppm 8 hours.

STEL: 250 ppm 15 minutes.

**CA Ontario Provincial (Canada, 7/2015).**

toluene

methanol

## Section 8. Exposure controls/personal protection

bis(2-ethylhexyl) phthalate

**Absorbed through skin.**

TWA: 200 ppm 8 hours.

STEL: 250 ppm 15 minutes.

**CA Quebec Provincial (Canada, 1/2014).****Absorbed through skin.**

TWAEV: 200 ppm 8 hours.

TWAEV: 262 mg/m<sup>3</sup> 8 hours.

STEV: 250 ppm 15 minutes.

STEV: 328 mg/m<sup>3</sup> 15 minutes.**CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin.**

STEL: 250 ppm 15 minutes.

TWA: 200 ppm 8 hours.

**CA Alberta Provincial (Canada, 4/2009).**8 hrs OEL: 5 mg/m<sup>3</sup> 8 hours.**CA British Columbia Provincial (Canada, 5/2015).**TWA: 5 mg/m<sup>3</sup> 8 hours.**CA Ontario Provincial (Canada, 7/2015).**TWA: 3 mg/m<sup>3</sup> 8 hours.STEL: 5 mg/m<sup>3</sup> 15 minutes.**CA Quebec Provincial (Canada, 1/2014).**TWAEV: 5 mg/m<sup>3</sup> 8 hours.STEV: 10 mg/m<sup>3</sup> 15 minutes.**CA Saskatchewan Provincial (Canada, 7/2013).**STEL: 10 mg/m<sup>3</sup> 15 minutes.TWA: 5 mg/m<sup>3</sup> 8 hours.**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

### Appearance

- Physical state** : Liquid.
- Color** : Colorless to light yellow.
- Odor** : Solvent.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : >60°C (>140°F)
- Flash point** : Closed cup: -18 to 23°C (-0,4 to 73,4°F)
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : Not available.
- Vapor density** : Not available.
- Relative density** : 0,9413
- Solubility** : Not available.
- Solubility in water** : Not available.
- Partition coefficient: n-octanol/water** : Not available.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Not available.
- Flow time (ISO 2431)** : Not available.
- VOC** : 587,6 g/l [ISO 11890-1]
- Volatility** : 76.01% (v/v), 67.94% (w/w)



## 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.

**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                | Species | Dose                    | Exposure |
|-----------------------------|-----------------------|---------|-------------------------|----------|
| n-butyl acetate             | LC50 Inhalation Gas.  | Rat     | 390 ppm                 | 4 hours  |
|                             | LD50 Dermal           | Rabbit  | >17600 mg/kg            | -        |
|                             | LD50 Oral             | Rat     | 10768 mg/kg             | -        |
| butan-1-ol                  | LC50 Inhalation Vapor | Rat     | 24000 mg/m <sup>3</sup> | 4 hours  |
|                             | LD50 Dermal           | Rabbit  | 3400 mg/kg              | -        |
|                             | LD50 Oral             | Rat     | 790 mg/kg               | -        |
| toluene                     | LC50 Inhalation Vapor | Rat     | 49 g/m <sup>3</sup>     | 4 hours  |
|                             | LD50 Oral             | Rat     | 636 mg/kg               | -        |
| methanol                    | LC50 Inhalation Gas.  | Rat     | 145000 ppm              | 1 hours  |
|                             | LC50 Inhalation Gas.  | Rat     | 64000 ppm               | 4 hours  |
|                             | LD50 Dermal           | Rabbit  | 15800 mg/kg             | -        |
|                             | LD50 Oral             | Rat     | 5600 mg/kg              | -        |
| bis(2-ethylhexyl) phthalate | LD50 Dermal           | Rabbit  | 25 g/kg                 | -        |
|                             | LD50 Oral             | Rat     | 30 g/kg                 | -        |

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                   | Observation |
|-------------------------|--------------------------|---------|-------|----------------------------|-------------|
| n-butyl acetate         | Eyes - Moderate irritant | Rabbit  | -     | 100 milligrams             | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams    | -           |
| butan-1-ol              | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams      | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 0.005 Milliliters          | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams     | -           |
| toluene                 | Eyes - Mild irritant     | Rabbit  | -     | 0,5 minutes 100 milligrams | -           |
|                         | Eyes - Mild irritant     | Rabbit  | -     | 870 Micrograms             | -           |
|                         | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2 milligrams      | -           |

## Section 11. Toxicological information

|                             |                          |        |   |                          |   |
|-----------------------------|--------------------------|--------|---|--------------------------|---|
| methanol                    | Skin - Mild irritant     | Pig    | - | 24 hours 250 microliters | - |
|                             | Skin - Mild irritant     | Rabbit | - | 435 milligrams           | - |
|                             | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams   | - |
|                             | Skin - Moderate irritant | Rabbit | - | 500 milligrams           | - |
|                             | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams  | - |
| bis(2-ethylhexyl) phthalate | Eyes - Moderate irritant | Rabbit | - | 40 milligrams            | - |
|                             | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams   | - |
|                             | Eyes - Mild irritant     | Rabbit | - | 24 hours 500 milligrams  | - |
|                             | Eyes - Mild irritant     | Rabbit | - | 500 milligrams           | - |
|                             | Skin - Mild irritant     | Rabbit | - | 24 hours 500 milligrams  | - |

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

| Name                          | Category                 | Route of exposure                  | Target organs  |
|-------------------------------|--------------------------|------------------------------------|--|
| n-butyl acetate<br>butan-1-ol | Category 3<br>Category 3 | Not applicable.<br>Not applicable. | Narcotic effects<br>Respiratory tract irritation and<br>Narcotic effects |
| toluene<br>methanol           | Category 3<br>Category 1 | Not applicable.<br>Not determined  | Narcotic effects<br>Not determined                                       |

### Specific target organ toxicity (repeated exposure)

| Name    | Category   | Route of exposure | Target organs  |
|---------|------------|-------------------|----------------|
| toluene | Category 2 | Not determined    | Not determined |

### Aspiration hazard

| Name    | Result                         |
|---------|--------------------------------|
| toluene | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Not available.

## Section 11. Toxicological information

### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Toxic if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- 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

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.
- Teratogenicity** : May damage the unborn child.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : May damage fertility.

## Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route               | ATE value    |
|---------------------|--------------|
| Oral                | 2066,7 mg/kg |
| Dermal              | 7602,2 mg/kg |
| Inhalation (gases)  | 1295,1 ppm   |
| Inhalation (vapors) | 80,64 mg/l   |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name     | Result                                | Species   | Exposure |
|-----------------------------|---------------------------------------|---|----------|
| n-butyl acetate             | Acute LC50 32 mg/l Marine water       | Crustaceans - Artemia salina  | 48 hours |
|                             | Acute LC50 18000 µg/l Fresh water     | Fish - Pimephales promelas  | 96 hours |
| butan-1-ol                  | Acute EC50 1983000 µg/l Fresh water   | Daphnia - Daphnia magna   | 48 hours |
|                             | Acute LC50 1730000 µg/l Fresh water   | Fish - Pimephales promelas  | 96 hours |
| toluene                     | Acute EC50 12500 µg/l Fresh water     | Algae - Pseudokirchneriella subcapitata                             | 72 hours |
|                             | Acute EC50 11600 µg/l Fresh water     | Crustaceans - Gammarus pseudolimnaeus - Adult                       | 48 hours |
|                             | Acute EC50 6000 µg/l Fresh water      | Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
|                             | Acute LC50 5500 µg/l Fresh water      | Fish - Oncorhynchus kisutch - Fry                                   | 96 hours |
| methanol                    | Chronic NOEC 1000 µg/l Fresh water    | Daphnia - Daphnia magna   | 21 days  |
|                             | Acute EC50 16,912 mg/l Marine water   | Algae - Ulva pertusa  | 96 hours |
|                             | Acute LC50 2500000 µg/l Marine water  | Crustaceans - Crangon crangon - Adult                               | 48 hours |
|                             | Acute LC50 3289 mg/l Fresh water      | Daphnia - Daphnia magna - Neonate                                   | 48 hours |
|                             | Acute LC50 290 mg/l Fresh water       | Fish - Danio rerio - Egg  | 96 hours |
| bis(2-ethylhexyl) phthalate | Chronic NOEC 9,96 mg/l Marine water   | Algae - Ulva pertusa  | 96 hours |
|                             | Acute EC50 31000000 µg/l Marine water | Algae - Karenia brevis  | 96 hours |
|                             | Acute EC50 133 µg/l Fresh water       | Daphnia - Daphnia pulex - Neonate                                   | 48 hours |
|                             | Acute LC50 690 µg/l Fresh water       | Fish - Ictalurus punctatus  | 96 hours |
|                             | Chronic NOEC 76 µg/l Marine water     | Algae - Hormosira banksii - Gamete                                  | 72 hours |
|                             | Chronic NOEC 109 µg/l Fresh water     | Crustaceans - Eurytemora affinis - Nauplii                          | 21 days  |
|                             | Chronic NOEC 77 µg/l Fresh water      | Daphnia - Daphnia magna   | 21 days  |
|                             | Chronic NOEC 12 µg/l Fresh water      | Fish - Pimephales promelas - Adult                                  | 28 days  |

### Persistence and degradability

Not available.

### Bioaccumulative potential

## Section 12. Ecological information

| Product/ingredient name     | LogP <sub>ow</sub> | BCF  | Potential |
|-----------------------------|--------------------|------|-----------|
| n-butyl acetate             | 2,3                | -    | low       |
| butan-1-ol                  | 1                  | -    | low       |
| toluene                     | 2,73               | 90   | low       |
| methanol                    | -0,77              | <10  | low       |
| bis(2-ethylhexyl) phthalate | 7,6                | 1380 | high      |

### Mobility in soil









Soil/water partition coefficient (K<sub>oc</sub>) : 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

|                            | TDG Classification   | DOT Classification   | ADR/RID  | IMDG   | IATA   |
|----------------------------|--|--|--|--|--|
| UN number                  | UN1263   | UN1263   | UN1263   | UN1263   | UN1263   |
| UN proper shipping name    | PAINT  | PAINT  | PAINT  | PAINT  | PAINT  |
| Transport hazard class(es) | 3<br>  | 3<br> | 3<br>  | 3<br>  | 3<br> |
| Packing group              | II   | II   | II   | II   | II   |
| Environmental hazards      | Yes.   | No.  | Yes.   | Yes.   | Yes. The environmentally hazardous substance mark is not required.                         |

## Section 14. Transport information

|                               |   |   |   |   |  |
|-------------------------------|---|---|---|---|--|
| <b>Additional information</b> | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.7 (Marine pollutant mark).<br><br>The marine pollutant mark is not required when transported by road or rail. | <b>Reportable quantity</b><br>1434,6 lbs / 651,3 kg [182,79 gal / 691,92 L]<br>Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements. | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.<br><br><b>Special provisions</b><br>640 (C)<br><br><b>Tunnel code</b><br>(D/E) | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. | The environmentally hazardous substance mark may appear if required by other transportation regulations. |
|-------------------------------|---|---|---|---|--|

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : The following components are listed: Xylene (all isomers); n-Butyl acetate; Ethanol; i-Butyl alcohol; Methanol; Volatile organic compounds; Isopropyl alcohol; n-Butyl alcohol; Toluene; Bis(2-ethylhexyl) phthalate

**CEPA Toxic substances** : The following components are listed: Volatile organic compounds; Bis(2-ethylhexyl) phthalate

**Canada inventory** : Not determined.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.

**China** : Not determined.

**Europe** : Not determined.

## Section 15. Regulatory information

|                          |  |
|--------------------------|--|
| <b>Japan</b>             | : <b>Japan inventory (ENCS):</b> Not determined.<br><b>Japan inventory (ISHL):</b> Not determined. |
| <b>Malaysia</b>          | : Not determined.  |
| <b>New Zealand</b>       | : Not determined.  |
| <b>Philippines</b>       | : Not determined.  |
| <b>Republic of Korea</b> | : Not determined.  |
| <b>Taiwan</b>            | : Not determined.  |
| <b>Turkey</b>            | : Not determined.  |
| <b>United States</b>     | : Not determined.  |

## Section 16. Other information

### History

|                                       |                          |
|---------------------------------------|--------------------------|
| <b>Date of printing</b>               | : 2017-07-28             |
| <b>Date of issue/Date of revision</b> | : 2017-07-26             |
| <b>Date of previous issue</b>         | : No previous validation |
| <b>Version</b>                        | : 1                      |

### 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) |
| : UN = United Nations   |
| : HPR = Hazardous Products Regulations  |

### Procedure used to derive the classification

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

**References** : Not available.

☑ Indicates information that has changed from previously issued version.

### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.