

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

| <u>Name</u> | <u>CAS number</u> | <u>% (w/w)</u> |
|-------------|-------------------|----------------|
| ethanol | 64-17-5 | 10 - 30 |
| methanol | 67-56-1 | 1 - 5 |

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

4. FIRST AID MEASURES

Description of required first aid measures

Eye contact In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention.

Skin contact In case of irritation, rinse with water. Get medical attention if irritation persists.

Ingestion Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Inhalation Move victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Eye contact Adverse symptoms may include the following:
irritation
watering
redness

Skin contact No specific symptoms under normal use conditions.

Ingestion No specific symptoms under normal use conditions.

Inhalation No specific symptoms under normal use conditions.

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media Do not use water jet.

Specific hazards arising from the chemical Flammable liquid and vapors. 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

Special fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action should 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.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions 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. Initiate spill response procedures if required.

Personal protection Put on appropriate personal protective equipment (see Section 8).

Cleaning method 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). Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

| | |
|------------------------------------|--|
| Handling | 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 Section 8 for additional information on hygiene measures. |
| Storage and Incompatibility | Store in accordance with local regulations. Store in a segregated and approved area. 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. Keep out of reach of children. Store away from incompatible materials (see Section 10). |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

| Ingredient name | Exposure limits |
|-----------------|---|
| Ethyl alcohol | <p>CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1000 ppm 8 hours. 8 hrs OEL: 1880 mg/m³ 8 hours.</p> <p>CA Quebec Provincial (Canada, 1/2014). TWAEV: 1000 ppm 8 hours. TWAEV: 1880 mg/m³ 8 hours.</p> <p>CA British Columbia Provincial (Canada, 6/2017). STEL: 1000 ppm 15 minutes.</p> <p>CA Ontario Provincial (Canada, 7/2015). STEL: 1000 ppm 15 minutes.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 1250 ppm 15 minutes. TWA: 1000 ppm 8 hours.</p> |
| methanol | <p>CA Alberta Provincial (Canada, 4/2009). Absorbed through skin. 8 hrs OEL: 262 mg/m³ 8 hours. 8 hrs OEL: 200 ppm 8 hours. 15 min OEL: 250 ppm 15 minutes. 15 min OEL: 328 mg/m³ 15 minutes.</p> <p>CA British Columbia Provincial (Canada, 6/2017). Absorbed through skin. TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.</p> <p>CA Ontario Provincial (Canada, 7/2015). Absorbed through skin. TWA: 200 ppm 8 hours. STEL: 250 ppm 15 minutes.</p> <p>CA Quebec Provincial (Canada, 1/2014). Absorbed through skin. TWAEV: 200 ppm 8 hours. TWAEV: 262 mg/m³ 8 hours. STEV: 250 ppm 15 minutes. STEV: 328 mg/m³ 15 minutes.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). Absorbed through skin. STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.</p> |

Appropriate engineering controls For manufacturing or industrial uses it can be appropriate to: 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 ventilating equipment.

Individual protection measures

| | |
|----------------------------------|--|
| Eye/face protection | Continued or intense exposures might require to wear safety glasses. It is minimally suggested to wear safety glasses while using or handling this product. |
| Hands and Body protection | No specific protective equipment required under normal use conditions. Prolonged or severe exposures might require to wear chemical-resistant gloves. No special protective clothing is required. |
| Respiratory protection | No specific protective equipment required under normal use conditions. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | | | |
|---|------------------|----------------------------------|------------------|-------------------------|---|
| Physical state | Liquid. [Opaque] | pH | 8 | Flash point | Closed cup: 45°C (113°F) [Pensky-Martens.] |
| Color | White. | Relative density | Not available. | Melting point | Not available. |
| Odor | Alcohol-like. | Viscosity | Not available. | Boiling point | Not available. |
| Odor threshold | Not available. | Vapor pressure | Not available. | Fire point | : Not available. |
| Solubility in water | : Not available. | Vapor density | : Not available. | Evaporation rate | : Not available. |
| Decomposition temperature | : Not available. | Auto-ignition temperature | : Not available. | | |
| Partition coefficient: n-octanol/ water | : Not available. | Flammability (solid, gas) | : Not available. | | |
| Lower and upper explosive (flammable) limits | : Not available. | | | | |

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. |
| Incompatible materials | Reactive or incompatible with the following materials: oxidizing materials |
| 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. |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occur. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11. TOXICOLOGICAL INFORMATION

| | | |
|--------------------------|---|--|
| Route of exposure | Not available. | |
| | <u>Potential acute health effects</u> | <u>Symptoms</u> |
| Eye contact | May cause eye irritation. | Adverse symptoms may include the following: irritation watering redness |
| Skin contact | No known significant effects or critical hazards. | No specific symptoms under normal use conditions. |
| Ingestion | No known significant effects or critical hazards. | No specific symptoms under normal use conditions. |
| Inhalation | No known significant effects or critical hazards. | No specific symptoms under normal use conditions. |

Toxicity data

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|-----------------------|---------|--------------------------|----------|
| Ethyl alcohol | LC50 Inhalation Vapor | Rat | 124700 mg/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | >20000 mg/kg | - |
| methanol | LD50 Oral | Rat | 7 g/kg | - |
| | 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 | - |

Information on toxicological effects

| | |
|------------------------------|---|
| Mutagenicity | No known significant effects or critical hazards. |
| Teratogenicity | No known significant effects or critical hazards. |
| Developmental effects | No known significant effects or critical hazards. |
| Fertility effects | No known significant effects or critical hazards. |
| Sensitization | Not available. |

Carcinogenicity

No known significant effects or critical hazards.


12. ECOLOGICAL INFORMATIONEcotoxicity data

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|--------------------------------------|--|----------|
| Ethyl alcohol | Acute EC50 17.921 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 2000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 25500 µg/l Marine water | Crustaceans - Artemia franciscana - Larvae | 48 hours |
| | Acute LC50 42000 µg/l Fresh water | Fish - Oncorhynchus mykiss | 4 days |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 100 µl/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| methanol | Chronic NOEC 0.375 µl/L Fresh water | Fish - Gambusia holbrooki - Larvae | 12 weeks |
| | 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 |
| | Chronic NOEC 9.96 mg/l Marine water | Algae - Ulva pertusa | 96 hours |

Persistence and degradability: Unknown **Bioaccumulative potential** : Unknown **Mobility in soil** : Unknown **Other adverse effects** : Unknown**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Dispose content and container in accordance with local, regional and national regulation in force.

14. TRANSPORT INFORMATION

| | UN number | UN proper shipping name | Transport hazard class (es) | Packing group | TDG Placard |
|---------------------------|-----------|--|-----------------------------|---------------|---|
| TDG Classification | UN1993 | FLAMMABLE LIQUID, N.O.S. (ethanol, methanol) | 3 | III |  |

Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).
Special provisions Transport Dangerous Good regulation exemption paragraph 1.33

Additional information

See shipping documents for specific information on DOT, IMDG or IATA

15. REGULATORY INFORMATIONCanadian lists**Canadian NPRI**

The following components are listed: Ethanol

CEPA Toxic substances

None of the components are listed.

Canada inventory

Not determined.

International lists**United States**

Not determined.

16. OTHER INFORMATION

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

| | |
|---------------------|---|
| Health Hazard | 1 |
| Fire Hazard | 2 |
| Reactivity | 1 |
| Personal Protection | B |

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