

# SAFETY DATA SHEET

## ZEP ICE MELT

Version 1.2

Revision Date 10/01/2023

Print Date 04/25/2025

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Material name : ZEP ICE MELT

Material number : 17600C

#### Manufacturer or supplier's details

Company : Zep Inc.

Address : 11627 - 178 Street  
Edmonton, Alberta T5S 1N6  
Canada

Telephone : Compliance Services - 877-428-9937

#### Emergency telephone numbers

**For SDS Information** : Compliance Services - 877-428-9937

**For a Medical Emergency** : 877-541-2016 Toll Free - All Calls Recorded

**For a Transportation Emergency** : CHEMTREC: 800-424-9300 - All Calls Recorded.

#### Recommended use of the chemical and restrictions on use

### SECTION 2. HAZARDS IDENTIFICATION

#### Emergency Overview

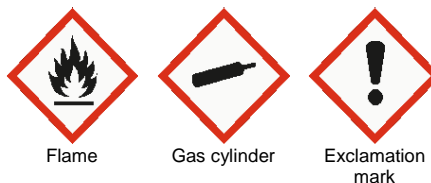
|            |                                     |
|------------|-------------------------------------|
| Appearance | Aerosol containing a compressed gas |
| Colour     | colourless                          |
| Odour      | strong                              |

#### GHS Classification

Flammable aerosols : Category 1  
Gases under pressure : Compressed gas  
Eye irritation : Category 2A

#### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

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H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.

Precautionary statements

: **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Pressurized container: Do not pierce or burn, even after use.

P264 Wash skin thoroughly after handling.

P280 Wear eye protection/ face protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

**Disposal:**

P501 Dispose of contents/container in accordance with local regulation.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Hazardous components

| Chemical name   | CAS-No.  | Concentration [%] |
|-----------------|----------|-------------------|
| ethanol         | 64-17-5  | >= 60 - < 80      |
| ethane-1,2-diol | 107-21-1 | >= 15 - < 40      |
| carbon dioxide  | 124-38-9 | >= 1 - < 5        |

### SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Flush eyes with water at least 15 minutes. Get medical

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attention if eye irritation develops or persists.

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|---|--|
| If swallowed  | : Keep respiratory tract clear.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. |
| Most important symptoms and effects, both acute and delayed | : Effects are immediate and delayed.<br>Symptoms may include irritation, redness, pain, and rash.<br>Causes serious eye irritation.<br>Review section 2 of SDS to see all potential hazards.                               |
| Notes to physician  | : Treat symptomatically. Symptoms may be delayed.  |

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### SECTION 5. FIREFIGHTING MEASURES

- |   |  |
|---|--|
| Suitable extinguishing media                  | : Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical  |
| Unsuitable extinguishing media                | : High volume water jet  |
| Specific hazards during firefighting          | : Do not allow run-off from fire fighting to enter drains or water courses.  |
| Hazardous combustion products                 | : Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Smoke  |
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  |
| Further information                           | : For safety reasons in case of fire, cans should be stored separately in closed containments.<br>Use a water spray to cool fully closed containers. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.   |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains, inform respective authorities.  |

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Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up or vacuum up spillage and collect in suitable container for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.  
Always replace cap after use.  
Avoid exposure - obtain special instructions before use.

Conditions for safe storage : BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.  
No smoking.  
Keep in a dry, cool and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components      | CAS-No.  | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|-----------------|----------|----------------------------------|--|-----------|
| ethanol         | 64-17-5  | TWA                              | 1,000 ppm<br>1,880 mg/m <sup>3</sup>           | CA AB OEL |
|                 |          | STEL                             | 1,000 ppm                                      | CA BC OEL |
|                 |          | TWAEV                            | 1,000 ppm<br>1,880 mg/m <sup>3</sup>           | CA QC OEL |
|                 |          | TWA                              | 1,000 ppm                                      | ACGIH     |
|                 |          | STEL                             | 1,000 ppm                                      | ACGIH     |
| ethane-1,2-diol | 107-21-1 | (c)                              | 100 mg/m <sup>3</sup>                          | CA AB OEL |
|                 |          | TWA<br>(particulate)             | 10 mg/m <sup>3</sup>                           | CA BC OEL |
|                 |          | STEL<br>(particulate)            | 20 mg/m <sup>3</sup>                           | CA BC OEL |
|                 |          | C (aerosol)                      | 100 mg/m <sup>3</sup>                          | CA BC OEL |

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|                |          |                     |                            |           |
|----------------|----------|---------------------|----------------------------|-----------|
|                |          | C (Vapour)          | 50 ppm                     | CA BC OEL |
|                |          | C (Vapour and mist) | 50 ppm<br>127 mg/m3        | CA QC OEL |
|                |          | C (Aerosol only)    | 100 mg/m3                  | ACGIH     |
| carbon dioxide | 124-38-9 | TWA                 | 5,000 ppm<br>9,000 mg/m3   | CA AB OEL |
|                |          | STEL                | 30,000 ppm<br>54,000 mg/m3 | CA AB OEL |
|                |          | TWA                 | 5,000 ppm                  | CA BC OEL |
|                |          | STEL                | 15,000 ppm                 | CA BC OEL |
|                |          | STEV                | 30,000 ppm<br>54,000 mg/m3 | CA QC OEL |
|                |          | TWAEV               | 5,000 ppm<br>9,000 mg/m3   | CA QC OEL |
|                |          | TWA                 | 5,000 ppm                  | ACGIH     |
|                |          | STEL                | 30,000 ppm                 | ACGIH     |

**Engineering measures** : effective ventilation in all processing areas

### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Hand protection  
Material : Protective gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Aerosol containing a compressed gas

Colour : colourless

Odour : strong

Odour Threshold : No data available

pH : Not applicable

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|  |                                |
|--|--------------------------------|
| Melting point/freezing point           | : Not applicable               |
| Boiling point                          | : Not applicable               |
| Flash point                            | :<br>Not applicable            |
| Evaporation rate                       | : > 1                          |
| Flammability (solid, gas, liquid)      | : Extremely flammable aerosol. |
| Upper explosion limit                  | : Not applicable               |
| Lower explosion limit                  | : Not applicable               |
| Vapour pressure                        | : 27 hPa (20 °C)               |
| Relative vapour density                | : No data available            |
| Density                                | : 0.84 g/cm <sup>3</sup>       |
| Solubility(ies)                        |                                |
| Water solubility                       | : soluble                      |
| Partition coefficient: n-octanol/water | : No data available            |
| Auto-ignition temperature              | : not determined               |
| Thermal decomposition                  | : No data available            |
| Viscosity                              |                                |
| Viscosity, kinematic                   | : No data available            |
| Heat of combustion                     | : > 20 kJ/g                    |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |
|------------------------------------|---|
| Reactivity                         | : Stable  |
| Chemical stability                 | : Stable under normal conditions.   |
| Possibility of hazardous reactions | : Vapours may form explosive mixture with air.<br>No decomposition if stored and applied as directed. |
| Conditions to avoid                | : Heat, flames and sparks.<br>Extremes of temperature and direct sunlight.                            |
| Incompatible materials             | : Strong oxidizing agents   |
| Hazardous decomposition products   | : Carbon dioxide (CO <sub>2</sub> )<br>Carbon monoxide<br>Organic Substances                          |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Potential Health Effects

Aggravated Medical Condition : None known.

Symptoms of Overexposure : Effects are immediate and delayed.  
Symptoms may include irritation, redness, pain, and rash.  
Causes serious eye irritation.  
Review section 2 of SDS to see all potential hazards.  
Treat symptomatically. Symptoms may be delayed.

#### Carcinogenicity:

##### IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### ACGIH

Confirmed animal carcinogen with unknown relevance to humans

ethanol

64-17-5

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate : 2,100 mg/kg  
Method: Calculation method

##### Components:

##### ethanol:

Acute oral toxicity : LD50 Oral Rat: 7,060 mg/kg

Acute inhalation toxicity : LC50 Rat: 124.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

##### ethane-1,2-diol:

Acute oral toxicity : Acute toxicity estimate Rat: 500 mg/kg  
Method: Converted acute toxicity point estimate  
Remarks: The acute toxicity estimate (ATE) value of 500 mg/kg has been assigned for GHS classification. LD50 values for oral toxicity on rats are reported in the literature to be > 4000 mg/kg, however rats can metabolize appreciable amounts of this chemical, while toxic effects on humans occur at much lower dosages.

#### Skin corrosion/irritation

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### **Product:**

Remarks: May cause skin irritation in susceptible persons.

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks: Severe eye irritation

### **Respiratory or skin sensitisation**

No data available

### **Germ cell mutagenicity**

No data available

### **Carcinogenicity**

No data available

### **Reproductive toxicity**

No data available

### **STOT - single exposure**

No data available

### **STOT - repeated exposure**

No data available

### **Aspiration toxicity**

No data available

### **Further information**

#### **Product:**

Remarks: No data available

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## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

#### **Product:**

Partition coefficient: n-octanol/water : Remarks: No data available

#### **Components:**

ethanol :



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Partition coefficient: n-octanol/water : Remarks: No data available

**ethane-1,2-diol :**

Partition coefficient: n-octanol/water : Pow: 1.36

### Mobility in soil

No data available

### Other adverse effects

No data available

#### Product:

Additional ecological information : No data available

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

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## SECTION 14. TRANSPORT INFORMATION

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|--|
| Transportation Regulation (TDG) / Règlement Pour Le Transport (TMD): (Canada):<br>UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity |
|--|

|  |
|--|
| Transportation Regulation / Règlement Pour Le Transport: IMDG (Vessel):<br>UN1950, AEROSOLS, 2.1, - Limited quantity |
|--|

|  |
|--|
| Transportation Regulation / Règlement Pour Le Transport: IATA (Cargo Air):<br>UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity |
|--|

|  |
|--|
| Transportation Regulation / Règlement Pour Le Transport: IATA (Passenger Air):<br>UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity |
|--|

|  |
|--|
| Transportation Regulation / Règlement Pour Le Transport: 49 CFR (USA):<br>UN1950, AEROSOLS, FLAMMABLE, 2.1, - Limited quantity |
|--|

The product as delivered to the customer conforms to packaging requirements for shipment by road under Transport Dangerous Goods (TDG) Canada regulations. Additional transportation classifications noted above are for reference only, and not a certification or warranty of the suitability of the packaging for shipment under these alternative transport regulations.

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### SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**The components of this product are reported in the following inventories:**

**DSL** All components of this product are on the Canadian DSL  
**TSCA** On TSCA Inventory

For information on the country notification status for other regions please contact the manufacturer's regulatory group.

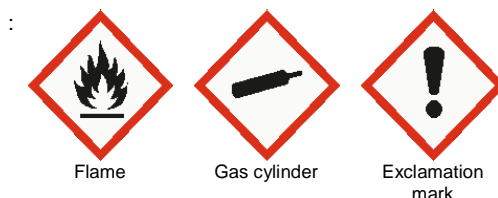
#### Inventory Acronym and Validity Area Legend:

TSCA (USA), DSL (Canada), NDSL (Canada)

### SECTION 16. OTHER INFORMATION

#### WHMIS - GHS Label Information:

Hazard pictograms



Signal word : **Danger:**

Hazard statements : Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation.

Precautionary statements : **Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Wash skin thoroughly after handling. Wear eye protection/ face protection.  
**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.  
**Storage:** Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.  
**Disposal:** Dispose of contents/container in accordance with local regulation.

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