



610, rue Adanac, Quebec (Quebec) G1C 7B7

## SAFETY DATA SHEET

Poison control center (Quebec)  
(800) 463-5060

Tel. (Qc): (418) 660-8666  
Tel. (Mtl): (450) 443-1046  
Fax. (Qc): (418) 660-8998

### 1. IDENTIFICATION

#### Product identifier

**Product Name** DOWFROST HD 50/50

#### Other means of identification

**Product Number** DF-5000

**Synonyms** None

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

**Recommended Use** For industrial use.

**Restricted Uses** No information available

#### Supplier Identifier

Laboratoire MAT Inc.  
610 Adanac, Québec, Qc, Canada G1C 7B7  
www.labmat.com  
labmat@labmat.com  
418-660-8666 / 800-890-8666

#### Emergency telephone number

**24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)**

### 2. HAZARD IDENTIFICATION

#### Hazardous Classification of the substance or mixture

None

#### Label elements

**Hazard pictograms** None

**Hazard statements**

---

The mixture does not meet the criteria for classification.

**Prevention**

Wash hands thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

In case of inadequate ventilation wear respiratory protection

**Response**

Read the label and safety data sheet before use.

Flush eyes with plenty amounts of water.

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash skin with plenty of water.

If skin irritation occurs: Get medical advice/attention

Move person to fresh air.

Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Storage**

Store in accordance with good industrial practices.

**Disposal**

Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable.

**Mixture**

| Chemical Name         | CAS No    | Weight-% | Synonyms              |
|-----------------------|-----------|----------|-----------------------|
| Water                 | 7732-18-5 | 45-55%   | Water                 |
| Propylene glycol      | 57-55-6   | 45-55%   | Propylene glycol      |
| Dipotassium phosphate | 7758-11-4 | 0.5-2.5% | Dipotassium phosphate |

**Notes:**

Contains: Aqueous additives, Not Hazardous < 2.0 %. Mixture of high purity Dow PuraGuard™ US Pharmacopeia grade propylene glycol, phosphate based corrosion inhibitor and pH stabilizer, and confidential performance additives.

### 4. FIRST AID MEASURES

**Description of first aid measures****Inhalation**

Remove to fresh air.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

---

**Skin contact**

Wash skin with soap and water.

**Ingestion**

Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed:**

No adverse health effects are expected from swallowing. May cause slight transient (temporary) eye irritation. No significant irritation expected from a single short-term exposure.

**Indication of any immediate medical attention and special treatment needed:****Note to physicians**

Treatment based on sound judgment of physician and individual reactions of patient.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Specific hazards arising from the substance or mixture**

No information available.

**Hazardous combustion products**

See section 10 for more information.

**Special protective equipment and precautions for fire-fighters**

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

**Environmental precautions**

See Section 12 for additional Ecological Information.

**Methods and materials for containment and cleaning up**

Prevent further leakage or spillage if safe to do so.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed in a dry, cool and well-ventilated place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

| Chemical Name                      | Alberta OEL   | British Columbia OEL | Ontario  | Quebec OEL    | Exposure Limit - ACGIH | Immediately Dangerous to Life or Health - IDLH |
|------------------------------------|---------------|----------------------|--|---------------|------------------------|--|
| Water<br>7732-18-5                 | Not available | Not available        | Not available  | Not available | Not available          | Not available                                  |
| Propylene glycol<br>57-55-6        | Not available | Not available        | TWA: 10 mg/m <sup>3</sup><br>TWA: 50 ppm<br>TWA: 155 mg/m <sup>3</sup> | Not available | Not available          | Not available                                  |
| Dipotassium phosphate<br>7758-11-4 | Not available | Not available        | Not available  | Not available | Not available          | Not available                                  |

Consult local authorities for recommended exposure limits

### Appropriate engineering controls

#### Engineering controls

Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Chemical goggles; also wear a face shield if splashing hazard exists.

#### Hand protection

Impervious gloves.

#### Skin and body protection

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

#### Respiratory protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.

#### General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

#### Appearance

|                |                          |
|----------------|--------------------------|
| Physical state | Liquid                   |
| Color          | Clear/ Faint yellow      |
| Odor           | Odorless                 |
| Odor threshold | No information available |

#### PROPERTIES

##### pH

##### Melting point / freezing point

#### Values

Nodata available  
~ -35 to -37°C

#### Remarks • Method

None known  
None known

|  |                           |               |
|--|---------------------------|---------------|
| <b>Initial boiling point/boiling range</b> | No data available         | None known    |
| <b>Flash point</b>                         | Not available.            | Not available |
| <b>Evaporation rate</b>                    | No data available         | None known    |
| <b>Flammability (solid, gas)</b>           | No data available         | None known    |
| <b>Flammability Limit in Air</b>           |                           |               |
| <b>Upper flammability limit:</b>           | No data available         |               |
| <b>Lower flammability limit:</b>           | No data available         |               |
| <b>Vapor pressure</b>                      | No data available         | None known    |
| <b>Relative vapor density</b>              | No data available         | None known    |
| <b>Specific Gravity</b>                    | 1.054                     |               |
| <b>Water solubility</b>                    | Soluble                   |               |
| <b>Solubility in other solvents</b>        | No data available         |               |
| <b>Partition coefficient</b>               | No data available         |               |
| <b>Autoignition temperature</b>            | No data available         | None known    |
| <b>Decomposition temperature</b>           | No data available         | None known    |
| <b>Kinematic viscosity</b>                 | No data available         | None known    |
| <b>Dynamic viscosity</b>                   | No data available         | None known    |
| <b>Explosive properties</b>                | No information available. |               |
| <b>Oxidizing properties</b>                | No information available. |               |
| <b>Molecular weight</b>                    | No information available  |               |
| <b>VOC Percentage Volatility</b>           | No information available  |               |
| <b>Liquid Density</b>                      | No information available  |               |
| <b>Bulk density</b>                        | No information available  |               |

## 10. STABILITY AND REACTIVITY

### Reactivity/Chemical Stability

Stable under normal conditions

### Possibility of hazardous reactions

No additional remark.

### Conditions to avoid

High temperatures.

### Incompatible materials

Contact with oxidizing agents.

### Hazardous decomposition products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Inhalation

No significant irritation expected from a single short-term exposure.

#### Eye contact

May cause slight transient (temporary) eye irritation.

#### Skin contact

No significant irritation expected from a single short-term exposure.

---

**Ingestion**

No adverse health effects are expected from swallowing.

**Information on toxicological effects****Symptoms**

No information available.

**Numerical measures of toxicity****Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) >10000mg/kg

ATEmix (dermal) >10000mg/kg

**Unknown acute toxicity** No information available

| Chemical Name                      | Oral LD50          | Dermal LD50              | Inhalation LC50 |
|------------------------------------|--------------------|--------------------------|-----------------|
| Water<br>7732-18-5                 | > 90 mL/kg ( Rat ) | Not available            | Not available   |
| Propylene glycol<br>57-55-6        | = 20 g/kg ( Rat )  | = 20800 mg/kg ( Rabbit ) | Not available   |
| Dipotassium phosphate<br>7758-11-4 | Not available      | Not available            | Not available   |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure****Skin corrosion/irritation**

No significant irritation expected from a single short-term exposure.

**Serious eye damage/eye irritation**

May cause slight transient (temporary) eye irritation.

**Respiratory or skin sensitization**

No information available.

**Germ cell mutagenicity**

No information available.

**Carcinogenicity**

No information available.

| Chemical Name                      | ACGIH         | IARC          | NTP           | OSHA          |
|------------------------------------|---------------|---------------|---------------|---------------|
| Water<br>7732-18-5                 | Not available | Not available | Not available | Not available |
| Propylene glycol<br>57-55-6        | Not available | Not available | Not available | Not available |
| Dipotassium phosphate<br>7758-11-4 | Not available | Not available | Not available | Not available |

**Reproductive toxicity**

No information available.

**Specific target organ systemic toxicity - single exposure**

No information available.

**Specific target organ systemic toxicity - repeated exposure**

No information available.

---

**Aspiration hazard**  
No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

| Chemical Name                      | Ecotoxicity - Freshwater<br>Algae Data                     | Ecotoxicity - Fish Species<br>Data  | Toxicity to<br>microorganisms | Crustacea   |
|------------------------------------|--|---|-------------------------------|---|
| Water<br>7732-18-5                 | Not available  | Not available   | Not available                 | Not available   |
| Propylene glycol<br>57-55-6        | 19000 mg/L EC50<br>Pseudokirchneriella<br>subcapitata 96 h | 41 - 47 mL/L LC50<br>(Oncorhynchus mykiss)<br>96 h static 51400 mg/L<br>LC50 (Pimephales<br>promelas) 96 h static<br>51600 mg/L LC50<br>(Oncorhynchus mykiss)<br>96 h static 710 mg/L<br>LC50 (Pimephales<br>promelas) 96 h | Not available                 | EC50: >1000mg/L (48h,<br>Daphnia magna) EC50:<br>>10000mg/L (24h,<br>Daphnia magna) |
| Dipotassium phosphate<br>7758-11-4 | Not available  | Not available   | Not available                 | Not available   |

**Persistence and degradability** No information available.

**Bioaccumulation** No information available.

| Chemical Name                      | Partition coefficient |
|------------------------------------|-----------------------|
| Water<br>7732-18-5                 | Not available         |
| Propylene glycol<br>57-55-6        | Not available         |
| Dipotassium phosphate<br>7758-11-4 | Not available         |

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

## 14. TRANSPORT INFORMATION

### TDG (Canada):

|               |                |
|---------------|----------------|
| UN Number     | Not applicable |
| Shipping name | Not regulated  |
| Class         | Not applicable |
| Packing Group | Not applicable |

**Marine pollutant** Not available.

**DOT (U.S.)**

**UN Number** Not applicable  
**Shipping name** Not regulated  
**Class** Not applicable  
**Packing Group** Not applicable  
**Marine pollutant** Not available

## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### U.S. Regulatory Rules

| Chemical Name                     | CERCLA/SARA - Section 302: | SARA (311, 312) Hazard Class: | CERCLA/SARA - Section 313: |
|-----------------------------------|----------------------------|-------------------------------|----------------------------|
| Water - 7732-18-5                 | Not Listed                 | Not Listed                    | Not Listed                 |
| Propylene glycol - 57-55-6        | Not Listed                 | Not Listed                    | Not Listed                 |
| Dipotassium phosphate - 7758-11-4 | Not Listed                 | Not Listed                    | Not Listed                 |

#### International Inventories

##### TSCA

All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

##### DSL/NDSL

All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

## 16. OTHER INFORMATION

**NFPA:** Health hazards 0 Flammability 0 Instability 0 Physical and chemical properties -  
**HMIS:** Health hazards 0 Flammability 0 Physical hazards 0 Personal protection X

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
Ceiling Maximum limit value \* Skin designation

---

**Disclaimer:****NOTICE TO READER:**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Last update : 2023-05-23

---

**End of Safety Data Sheet**