

## Safety Data Sheet

### DOWFROST™ Heat Transfer Fluid

Version 1.1

Revision Date: 09/21/2021

#### SECTION 1. IDENTIFICATION

**Product name** : DOWFROST™ Heat Transfer Fluid

Synonyms : No data available

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

Recommended use : Reserved for industrial and professional use.

Restricted Uses : No data available

#### Supplier or Repackaging Details

**Company** : Univar Solutions Canada Ltd.  
**Address** : 9800 Van Horne Way  
 Richmond, BC V6X1W5  
 Canada

**Manufactured By** : The Dow Chemical Company

#### Emergency telephone number:

Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827

**Additional Information:** : Responsible Party: Product Compliance Department  
 E-mail: SDSNA@univarsolutions.com  
 SDS Requests: 1-855-429-2661  
 Website: www.univarsolutions.com

Special Notes: : This product is a trademark of the manufacturer listed above.

#### SECTION 2. HAZARD IDENTIFICATION

##### Hazardous Classification of the substance or mixture

Not a hazardous substance or mixture.

##### Label elements

Not a hazardous substance or mixture.

##### Other hazards

None known.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

##### Hazardous components

CAS-No.	Chemical name	% by Weight	Synonyms
57-55-6	Propylene glycol	95	Propylene glycol
7732-18-5	Water	3	water (Drinking water)
TRADE SECRET - NOT HAZARDOUS	Inorganic corrosion inhibitor	3	Inorganic corrosion inhibitor

The exact ranges of this mixture are being withheld due to a Trade Secret.

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#### SECTION 4. FIRST-AID MEASURES

- General advice : 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 : Wash off with plenty of water.  
Take off contaminated clothing and shoes immediately.  
If symptoms persist, call a physician.
- In case of eye contact : Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Do not induce vomiting without medical advice.

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#### SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Dry chemical  
Carbon dioxide (CO<sub>2</sub>)  
Alcohol-resistant foam  
Water spray
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : toxic fumes  
Carbon oxides
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Standard procedure for chemical fires.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

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#### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

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#### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the ap-

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Conditions for safe storage	: application area. Electrical installations / working materials must comply with the technological safety standards.
Materials to avoid	: No materials to be especially mentioned.

#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

##### Personal protective equipment

Respiratory protection	: No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.
Eye protection	: Safety glasses
Skin and body protection	: Protective suit
Hygiene measures	: General industrial hygiene practice.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Colour	: Characteristic colorless
Odour	: characteristic
Odour Threshold	: No data available
pH	: 9.5 - 10 @ 50 % @ 20 - 25 °C (68 - 77 °F)
Freezing Point	: No data available
Boiling Point (Boiling point/boiling range)	: 152 °C (306 °F) (1013 hPa)
Flash point	: 104 °C (219 °F) Method: ASTM D 93, Pensky-Martens closed cup (for a component of this mixture)
Evaporation rate	: Estimated < 0.5
Flammability (solid, gas)	: No data available
Upper explosion limit	: 12.5 %(V) (for a component of this mixture)
Lower explosion limit	: 2.6 %(V) (for a component of this mixture)
Vapour pressure	: 2.2 mmHg
Relative vapour density	: > 1.0
Relative density	: 1.05 - 1.06 @ 20 °C (68 °F) Reference substance: (water = 1)
Density	: No data available
Solubility(ies)	

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Water solubility	: completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 371 °CAuto-flammability (for a component of this mixture)
Thermal decomposition	: No data available
Viscosity	
Viscosity, kinematic	: 43.4 mm <sup>2</sup> /s @ 20 °C (68 °F)

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No hazards to be specially mentioned.
Conditions to avoid	: elevated temperatures Extremes of temperature and direct sunlight.
Incompatible materials	: Strong acids Strong bases Strong oxidizing agents
Hazardous decomposition products	: Alcohols Aldehydes ethers Organic acids

#### SECTION 11. TOXICOLOGICAL INFORMATION

##### Acute toxicity

##### Product:

Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: Assessment: The substance or mixture has no acute dermal toxicity

##### Components:

##### **TRADE SECRET - NOT HAZARDOUS:**

Acute oral toxicity	: Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: Assessment: The substance or mixture has no acute dermal

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toxicity

#### Skin corrosion/irritation

**Product:**

Result: No skin irritation

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

Result: No skin irritation

#### Serious eye damage/eye irritation

**Product:**

Result: No eye irritation

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

Result: No eye irritation

#### Respiratory or skin sensitisation

**Product:**

Result: Does not cause skin sensitisation.

Result: Does not cause respiratory sensitisation.

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity

**Product:**

Germ cell mutagenicity - Assessment : mutagenicity classification is not possible

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

#### Carcinogenicity

**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

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Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### Reproductive toxicity

**Product:**

Reproductive toxicity - Assessment : No toxicity to reproduction

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

Reproductive toxicity - Assessment : No toxicity to reproduction

Teratogenicity - Assessment : No toxicity to reproduction

#### Aspiration toxicity

**Product:**

No aspiration toxicity classification

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

No aspiration toxicity classification

#### Further information

**Product:**

Remarks: No data available

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## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

**Components:**

**TRADE SECRET - NOT HAZARDOUS:**

Toxicity to fish : Remarks: presumed non-toxic

Toxicity to daphnia and other aquatic invertebrates : Remarks: presumed non-toxic

Toxicity to algae : Remarks: presumed non-toxic

#### Persistence and degradability

**Product:**

Biodegradability : Remarks: Readily biodegradable

#### Bioaccumulative potential

No data available

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#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Additional ecological information : No data available

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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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### SECTION 14. TRANSPORT INFORMATION

**TDG (Transportation of Dangerous Goods):** Not regulated as a dangerous good

#### **UNRTDG**

Not regulated as a dangerous good

**IATA (International Air Transport Association):** Not regulated as a dangerous good

**IMDG-Code:** Not regulated as a dangerous good

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### SECTION 15. REGULATORY INFORMATION

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

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

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL

AICS : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

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ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PHIL	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory

#### SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) [SDSNA@univarsolutions.com](mailto:SDSNA@univarsolutions.com).

**Revision Date** : 09/21/2021

**Legacy SDS:** : R0032366

**Material number:**

16174857, 16168153, 16168490, 16172818, 16166946, 16144011, 16047459, 16025564, 638287, 551512, 554171, 161083, 117518, 145648, 65381, 115781, 98833, 98142

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH	American Conference of Government Industrial Hygienists	LD50	Lethal Dose 50%
AICS	Australia, Inventory of Chemical Substances	LOAEL	Lowest Observed Adverse Effect Level
DSL	Canada, Domestic Substances List	NFPA	National Fire Protection Agency
NDSL	Canada, Non-Domestic Substances List	NIOSH	National Institute for Occupational Safety & Health
CNS	Central Nervous System	NTP	National Toxicology Program
CAS	Chemical Abstract Service	NZIoC	New Zealand Inventory of Chemicals
EC50	Effective Concentration	NOAEL	No Observable Adverse Effect Level
EC50	Effective Concentration 50%	NOEC	No Observed Effect Concentration
EGEST	EOSCA Generic Exposure Scenario Tool	OSHA	Occupational Safety & Health Administration
EOSCA	European Oilfield Specialty Chemicals Association	PEL	Permissible Exposure Limit
EINECS	European Inventory of Existing Chemical Substances	PICCS	Philippines Inventory of Commercial Chemical Substances
MAK	Germany Maximum Concentration Values	PRNT	Presumed Not Toxic
GHS	Globally Harmonized System	RCRA	Resource Conservation Recovery Act
>=	Greater Than or Equal To	STEL	Short-term Exposure Limit

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IC50	Inhibition Concentration 50%	SARA	Superfund Amendments and Reauthorization Act.
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
IECSC	Inventory of Existing Chemical Substances in China	TWA	Time Weighted Average
ENCS	Japan, Inventory of Existing and New Chemical Substances	TSCA	Toxic Substance Control Act
KECI	Korea, Existing Chemical Inventory	UVCB	Unknown or Variable Composition, Complex Reaction Products, and Biological Materials
<=	Less Than or Equal To	WHMIS	Workplace Hazardous Materials Information System
LC50	Lethal Concentration 50%		