



Date of Revision: March 15, 2022

### **Section 1 - Chemical Product and Company Identification**

Product Name StaFrost 40% Synonyms StaCool SRP-40

Product Use Industrial Heat Transfer Fluid – Propylene Glycol Base

Restrictions On Use Not Applicable Supplier CFR Chemicals

38451 Range Road 22

County of Red Deer T4E 2N6

**General Assistance** 1 (877) 269-3419

Emergency Telephone Not Dangerous Goods – Call General Assistance

Date of Preparation of SDS April 1, 2017

#### Section 2 – Hazard Identification

Signal Word Warning

GHS Pictogram(s)

Hazard Statement:

H316 Causes mild skin irritation. H320 Causes eye irritation.

**Precautionary Statement** 

Prevention

No Statements.

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.

Storage

No Statements.

Disposal

P501 Dispose of contents/container to an approved waste disposal unit.

GHS Classification None

**HMIS Classification** 

Health Hazard 0
Chronic Health Hazard \*
Flammability 1
Physical Hazards 0

## Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Hazardous Ingredient, Synonyms PERCENT CAS
Name
Propylene Glycol Propylene glycol; 1,2-Propanediol; 40% 57-55-6

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Water	Aqua	56 – 58%	7732-18-5
Potassium hydroxide	Caustic Potash, Lye	0.5 – 1%	1310-5-3
Phosphoric acid, 75%, aqueous solution	Orthophosphoric Acid	0.5 – 1%	7664-38-2
Boric Acid	Hydrogen Borate, Boracic acid, orthoboric acid	0-0.2%	10043-35-3
Sodium 4(or 5)-methyl-1H- benzotriazolide	Not Applicable	0-0.10%	64665-57-2
Polydimethylsiloxane	Not Applicable	0 – 0.02%	63147-62-9
Silica filled polydimethylsiloxane	Not Applicable	0 - 0.01%	67762-90-7
Sucrose distearate	Not Applicable  * = Various ** = Mixture *** = Proprietary	0-0.01%	27915-16-0
	- various - white - Proprietary		

#### **Section 4 - First Aid Measures**

**Inhalation** If breathed in, move person into fresh air. If not breathing, give artificial

respiration. Consult a physician.

**Eye Contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

**Skin Contact** Wash off with plenty of water. Consult a physician.

**Ingestion** Never give anything by mouth to an unconscious person. Rinse mouth with water.

Consult a physician.

Most Important Symptoms/Effects both Acute and Delayed

Not expected to present a significant hazard under anticipated conditions of

normal use.

**Note to Physician**No specific antidote. Treatment of exposure should be directed at the control of

the symptoms and the clinical condition of the patient.

## Section 5 - Fire-Fighting Measures

Flash Point (°C) Not Flammable

**Flash Point Method** PMCC **Auto Ignition Temperature** 415°C

**Conditions of Flammability** Not flammable or combustible.

Extinguishing Media Unsuitable Extinguishing Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Media Water jet.

**Unusual Fire/** 

**Explosion Hazard** No data available.

**Hazardous Combustion** 

**Products** Carbon oxides.





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**Fire Fighting Equipment** 

Wear appropriate protective equipment and self-contained breathing apparatus

with a full face-piece operated in positive pressure mode.

Special Precautions for Firefighters

Do not enter fire area without proper protective equipment, including

respiratory protection.

#### Section 6 – Accidental Release Measures

Personal precautions Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapour

can accumulate in low areas.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter

drains. Discharge into the environment must be avoided.

Methods and materials for

containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in

suitable, closed containers for disposal.

### Section 7 - Handling and Storage

**Precautions for safe handling** 

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

**Conditions for safe storage** 

Keep container tightly closed in a dry and well-ventilated place. Containers which

are opened must be carefully resealed and kept upright to prevent leakage.

Hygroscopic.

**Incompatible Materials** Strong acids, Strong bases, Sources of ignition, Direct sunlight.

### Section 8 – Exposure Controls / Personal Protection

**Occupational Exposure Limits** 

**Boric Acid** 

Ingredient Name Exposure Limits

Canada, Alberta OHSC Code

200mg/m<sup>3</sup>

Propylene Glycol ACGIH TLV

TLV: 100mg/m<sup>3</sup>

Canada, Alberta OHSC Code

None established

Potassium hydroxide

ACGIH

Ceiling: 2mg/m<sup>3</sup>

Canada, Alberta OHSC Code

1mg/m<sup>3</sup>

**ACGIH** 

Phosphoric acid, 75%, aqueous solution TWA: 1mg/m<sup>3</sup>

STEL: 3mg/m<sup>3</sup>

**OSHA PEL** 

TWA 1mg/m<sup>3</sup>

Canada, Alberta OHSC Code

None established

ACGIH

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TWA: 2mg/m<sup>3</sup> STEL: 6mg/m<sup>3</sup>

Sodium 4(or 5)-methyl-1H-benzotriazolide

Canada, Alberta OHSC Code

None established

Polydimethylsiloxane Canada, Alberta OHSC Code

None established

Silica filled polydimethylsiloxane Canada, Alberta OHSC Code

None established

Sucrose distearate Canada, Alberta OHSC Code

TWA: 10mg/m³ (Stearates in general)

Canada, Alberta OHSC Code

Propylene Glycol 200mg/m³ ACGIH TLV

TLV: 100mg/m3

Personal protective equipment

**Eye/face protection** Chemical safety glasses with side shields to prevent eye contact. As a general rule

do not wear contact lenses when handling chemicals. If contact is possible, the following protection should be worn: Splash goggles. 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 inhalation hazards exist, a full-face respiratory may be required instead.

**Skin protection** Wear chemical resistant gloves, impermeable protective clothing and safety

shoes. 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.

**Respiratory protection** Use a properly fitted, air-purifying or supplied air respirator complying with an

approved standard if a risk assessment indicates this is necessary.

**General hygiene** 

**Considerations** Handle in accordance with good industrial hygiene and safety. Eye wash fountains

and safety showers must be easily accessible.

**Specific 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. Use explosion-proof

**Lower Explosive Limit (LEL)** 

2.6 %

ventilation equipment.

Not available.

### **Section 9 – Physical and Chemical Properties**

Physical StateLiquidWater SolubilitymiscibleAppearance & OdourClear, Colourless.Boiling Point>100°COdourless.Odourless.

Vapour Pressure $0.011 \text{ kPa } (20.0^{\circ}\text{C})$ Boiling Point RangeNot applicableVapour Density2.5 (Air = 1)Melting Point $-22^{\circ}\text{C}$ Specific Gravity1.03 - 1.05Freezing Point $-22^{\circ}\text{C}$ 

Partition coefficient (n-

octonal/water)8.0 – 9.5 NeatUpper Explosive Limit (UEL)12.5 %Flashpoint (Method)Not flammableAuto Ignition temperature415°C

Odour Threshold Not available. Evaporation Rate Not available.





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Flammability (Solid, Gas) Not available.

**Decomposition Temperature** Not available. **Viscosity** Not available.

### Section 10 – Stability and Reactivity

**Reactivity** No specific test data related to reactivity available for this product.

**Chemical stability** Stable under recommended storage conditions.

Possibility of hazardous

reactions

No data available.

**Conditions to avoid** Sources of ignition, Direct sunlight

Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing

agents

**Hazardous decomposition products** 

Carbon oxides.

#### **Section 11- Toxicological Information**

#### Information on Likely Routes of Exposure

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.Skin contactHarmful if absorbed through the skin. May cause skin irritation.

**Eye contact** May cause eye irritation. **Ingestion** May be harmful if swallowed. **Acute and Chronic Toxicity** May be harmful if swallowed.

#### **Acute toxicity**

Product/Ingredient Name	Result	Species	Dose	Exposure
Propylene Glycol	LD50 Oral	Rat	20000mg/kg	-
	LD50 Dermal	Rabbit	20800mg/kg	-
Potassium hydroxide	LD50 Oral	Rat	333mg/kg	-
Phosphoric acid, 75%, aqueous solution	LD50 Oral	Rat	4400mg/kg	-
Boric Acid	LD50 Oral	Rat	>2000mg/kg	-
BOTTE ACIO	LD50 Dermal	Rabbit	>2000mg/kg	-
Sodium 4(or 5)-methyl-1H-benzotriazolide	LD50 Oral	Rat	2660mg/kg	
30didiii 4(01 3) ilictiiyi 111 belizotiidzolide	LD50 Dermal	Rabbit	>2000mg/kg	
Polydimethylsiloxane	No data available			

Silica filled polydimethylsiloxane
Sucrose distearate
No data available
No data available

**Skin corrosion/irritation** Not classified.

Serious eye damage/ Eye irritation

Not classified.

Respiratory or skin sensitization

Not classified.

Mutagenicity Not classified.

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.





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ACGIH: No component of this product present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity** Not classified. **Teratogenicity** Not classified.

Specific target organ toxicity - single exposure (Globally Harmonized System)

Not classified.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

Not classified.

Aspiration hazard Not classified.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

**Short Term Exposure** 

Potential immediate Health Effects

No data available.

Potential Delayed Health Effects

No data available.

**Long Term Exposure** 

Potential immediate Health Effects

Potential Delayed Health Effects

No data available.

No data available.

No data available.

Synergistic effects No data available

### Section 12 - Ecological Information

#### **Toxicity**

Product / Ingredient Name Propylene Glycol		Result LC50 52930mg/L EC50 >10000mg/L	<b>Species</b> Fish – Pimephales promelas Daphnia – Daphnia magna	<b>Exposure</b> 96 Hr 24 Hr
Potassium hydroxide		LC50 28.6mgL	Fish – Pisces	96 Hr
Phosphoric acid, 75%, aqueous solu	ution	LC50 138mgL	Fish – Pisces	96 Hr
Boric Acid		LC50 100ppm EC50 658-875mg/L	Fish – Oncorhynchus mykiss Daphnia – Dapnhia magna	96 Hr 48 Hr
Sodium 4(or 5)-methyl-1H-benzotr	iazolide	LC 50 25mgL EC 50 280mg/L	Fish – Oncorhynchus mykiss Daphnia – Daphnia magna	96 Hr 24 Hr
Polydimethylsiloxane		No data available		
Silica filled polydimethylsiloxane		No data available		
Sucrose distearate		No data available		
Persistence and degradability	No dat	ta available.		
Bioaccumulative potential	No dat	ta available.		
Mobility in soil	No dat	ta available.		
PBT and vPvB assessment	No dat	ta available		

## **Section 13 – Disposal Considerations**

#### **Product**

Do not discharge substance/product into sewer system. Dispose of in accordance with national, regional, and local regulations.

#### **Contaminated packaging**





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Dispose of as unused product in a licensed facility. Recommend crushing, puncturing, or other means to prevent unauthorized use of used containers. Do not cut, weld, or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled materials and runoff and contain with soil, waterways, drains, and sewers.

## **Section 14 - Transportation Information**

CANADA Transportation of Dangerous Goods (TDG) **Not Dangerous Goods** 

### Section 15 - Regulatory Information

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act)

All components of this product are in compliance with the chemical notification

requirements of the NSN Regulations under CEPA, 1999.

**TSCA Inventory** All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

#### Section 16 – Other Information

**REVISION SUMMARY:** 

Date of Preparation April 1, 2017
Date of Revision March 15, 2022

SDS Prepared by: CFR Lab Manager

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