



Date of Revision: March 20, 2020

Section 1 - Chemical Product and Company Identification

Product Name StaFrost 60N Synonyms StaCool SRP-60N

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)

None

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 Name

Hazardous Ingredient, Synonyms

PERCENT

CAS NUMBER





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Propylene Glycol	Propylene glycol; 1,2-Propanediol; 60% Propane-1,2-diol; PG		60-55-6	
Water	Aqua	36 – 38%	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	
Sodium Nitrite	Not Applicable	0.02 - 0.5%	7362-00-00	
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%	64665-60-2	
Polydimethylsiloxane	Not Applicable	0 - 0.02%	63147-62-9	
Silica filled polydimethylsiloxane	Not Applicable	0 - 0.01%	67762-90-7	
Sucrose distearate	Not Applicable	0 - 0.01%	27915-16-0	
	* = Various ** = Mixture *** = 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 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing

Media Water jet.

Unusual Fire/

Explosion Hazard No data available.





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Hazardous Combustion

Products

Carbon oxides.

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

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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

Ingredient Name Exposure Limits

Canada, Alberta OHSC Code

Propylene Glycol 200mg/m³

ACGIH TLV

TLV: 100mg/m³

Canada, Alberta OHSC Code

None established

ACGIH

Ceiling: 2mg/m³

Canada, Alberta OHSC Code

1mg/m³

ACGIH

Phosphoric acid, 75%, aqueous solution

Potassium hydroxide

TWA: 1mg/m³ STEL: 3mg/m³

OSHA PEL

TWA 1mg/m³





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Canada, Alberta OHSC Code

None established

Boric Acid ACGIH

TWA: 2mg/m³ STEL: 6mg/m³

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

Canada, Alberta OHSC Code None established Canada, Alberta OHSC Code

Polydimethylsiloxane

None established

Canada, Alberta OHSC Code

Silica filled polydimethylsiloxane

None established

Canada, Alberta OHSC Code

Sucrose distearate

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

ventilation equipment.

Not available.

Section 9 – Physical and Chemical Properties

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

Vapour Pressure Odourless.

Vapour Pressure

0.011 kPa (20.0°C) **Boiling Point Range** Not applicable 2.5 (Air = 1) **Melting Point** <-40°C 1.03 – 1.05 **Freezing Point** <-40°C

Lower Explosive Limit (LEL)

2.6 %

Specific Gravity
Partition coefficient (n-

octonal/water)

Vapour Density

pH 8.0 – 9.5 Neat Upper Explosive Limit (UEL) 12.5 %





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Flashpoint (Method)Not flammable

Auto Ignition temperature 415°C

Odour Threshold Not available. Evaporation Rate Not available.

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

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.Skin contact Harmful 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 Propylene Glycol	Result LD50 Oral	Species Rat	Dose 20000mg/kg	Exposure -
2	LD50 Dermal	Rabbit	20800mg/kg	-
Potassium hydroxide	LD50 Oral	Rat	333mg/kg	-
Phosphoric acid, 75%, aqueous solution	LD50 Oral	Rat	4400mg/kg	-
Sodium nitrite	LD50 Oral	Rat	4700mg/kg	-
Boric Acid	LD50 Oral LD50 Dermal	Rat Rabbit	>2000mg/kg >2000mg/kg	-
Sodium 4(or 5)-methyl-1H-benzotriazolide	LD50 Oral LD50 Dermal	Rat Rabbit	2660mg/kg >2000mg/kg	
Delicaline asked all access	No determinable			

Polydimethylsiloxane No data available
Silica filled polydimethylsiloxane No data available
Sucrose distearate 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





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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: 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.
Potential Chronic Effects
No data available.

Synergistic effects No data available

Section 12 - Ecological Information

Toxicity

TOXICITY				
Product / Ingredient Name Propylene Glycol		Result LC50 52930mg/L EC50 >10000mg/L	Species Fish – Pimephales promelas Daphnia – Daphnia magna	Exposure 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
Sodium Nitrite		LC50 0.19mgL	Fish – Oncorhynchus mykiss	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-benzotri	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





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

Contaminated packaging

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 20, 2020

SDS Prepared by: CFR Lab Manager

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