



Section 1 - Chemical Product and Company Identification

Product Name	StaTherm SRT 90
Synonyms	inhibited TEG 90
Product Use	Various use, chemical intermediate, heat transfer fluid
Restrictions On Use	Not Applicable
Supplier	CFR Chemicals 38451 Range Road 22 County of Red Deer T4E 2N6 1 (877) 269-3419
General Assistance	
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	
P264	Wash skin thoroughly after handling.
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.
P332 + P313	IF SKIN IRRITATION OCCURS: Get medical advice / attention.
P337 + P313	IF EYE IRRITATION PERSISTS: Get medical advice / attention.
Storage	
No Statements.	
Disposal	
P501	Dispose of contents/container to an approved waste disposal unit.
GHS Classification	Skin irritation (Category 3) Eye irritation (Category 2B)
HMIS Classification	
Health Hazard	1
Chronic Health Hazard	*
Flammability	1
Physical Hazards	0

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Triethylene Glycol	TEG, 2,2'-(ethylenedioxy)diethanol; TEG; 2,2'-[1,2-ethanediylbis(oxy)]bisethanol; Triglycol	90%	112-27-6
Water	H ₂ O, Aqua	5 – 10%	7732-18-5
Potassium hydroxide	Caustic Potash, Lye	0 – 1%	1310-5-3
Phosphoric acid, 75%, aqueous solution	Orthophosphoric Acid	0 – 1%	7664-38-2
Ethylene Glycol	1,2-ethanediol, EG, Glycol	0 – 1%	107-21-1
Disodium tetraborate, pentahydrate	Aqua	0 – 0.9%	12173-04-3
Sodium 4(or 5)-methyl-1H-benzotriazolide	Not Applicable	0 – 0.45%	64665-57-2
Sodium Nitrite	Not Applicable	0 – 0.36%	7362-00-00
Non-hazardous corrosion inhibitors and pH buffers	Not Applicable	0 – 0.15%	Trade Secret
Polydimethylsiloxane	Not Applicable	0 – 0.1%	63147-62-9
Silica filled polydimethylsiloxane	Not Applicable	0 – 0.04%	67762-90-7
Sucrose distearate	Not Applicable	0 – 0.04%	27915-16-0
* = Various ** = Mixture *** = Proprietary			
Chemical Formula	Not Applicable		

Section 4 - First Aid Measures

Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower lids. Check for and remove contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Get medical attention immediately. Call a poison control centre or physician. If alert, rinse mouth and drink ½ to 1 glass of water to help dilute the material. Do not give liquids to a drowsy, convulsion, or unconscious patient. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so vomit does not enter the lungs. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.



Most Important Symptoms/Effects both Acute and Delayed

Harmful if swallowed. Symptoms may include headache, nausea, vomiting.. May cause slight eye and skin irritation. Symptoms include: Redness, swelling, itching and dryness.

Note to Physician

Consult a physician. Show this safety data sheet to the doctor in attendance.

Section 5 – Fire-Fighting Measures

Flash Point (°C)	Not Flammable
Flash Point Method	PMCC
Auto Ignition Temperature	347°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.
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	No data available.

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. Strong oxidizing agents.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name	Exposure Limits
Triethylene Glycol	ACGIH TLV Ceiling: 50ppm, 127mg/m ³
Potassium hydroxide	Canada, Alberta OHSC Code None established ACGIH Ceiling: 2mg/m ³
Phosphoric acid, 75%, aqueous solution	Canada, Alberta OHSC Code 1mg/m ³ ACGIH TWA: 1mg/m ³ STEL: 3mg/m ³ OSHA PEL TWA 1mg/m ³
Ethylene Glycol	Canada, Alberta OHSC Code 100mg/m ³ ACGIH TLV: 100mg/m ³
Disodium tetraborate, pentahydrate	Canada, Alberta OHSC Code TWA: 1mg/m ³ Ceiling: 3mg/m ³ ACGIH TWA: 2mg/m ³
Sodium 4(or 5)-methyl-1H-benzotriazole	Canada, Alberta OHSC Code None established
Sodium Nitrite	Canada, Alberta OHSC Code None established ACGIH None Established OSHA None Established
Corrosion Inhibitors and pH Buffers	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/m ³ (Stearates in general)

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.

Section 9 – Physical and Chemical Properties

Physical State	Liquid	Water Solubility	miscible
Appearance & Odour	Clear, colourless. Odourless.	Boiling Point	170°C (15 psig)
Vapour Pressure	<1 mmHg (20.0°C) (TEG)	Boiling Point Range	Not applicable
Vapour Density	5.18(Air = 1) (TEG)	Melting Point	<-35°C
Specific Gravity	1.11 – 1.13	Freezing Point	<-35°C
Partition coefficient (n-octanol/water)	Not available.	Lower Explosive Limit (LEL)	0.9% (TEG)
pH	Not available.	Upper Explosive Limit (UEL)	9.2% (TEG)
Flashpoint (Method)	Not Flammable.	Auto Ignition temperature	347°C (TEG)
Odour Threshold	Not available.	Evaporation Rate	Not available.
Flammability (Solid, Gas)	Not available.		
Decomposition Temperature	203°C	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	No data available.
Materials to avoid	Strong acids. Strong oxidizing agents. Strong bases
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 cause abdominal discomfort or pain, nausea, vomiting



Safety Data Sheet – GHS StaTherm SRT 90%

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Acute and Chronic Toxicity No data available

Acute toxicity

Product/Ingredient Name	Result	Species	Dose
Triethylene Glycol	LD50 Oral	Rat	17000mg/kg
	LD50 Dermal	Rabbit	22500mg/kg
Potassium hydroxide	LD50 Oral	Rat	333mg/kg
Phosphoric acid, 75%, aqueous solution	LD50 Oral	Rat	4400mg/kg
Ethylene Glycol	LD50 Oral	Rat	4700mg/kg
	LD50 Dermal	Rabbit	10626mg/kg
Disodium tetraborate, pentahydrate	LD50 Oral	Rat	>2000mg/kg
	LD50 Dermal	Rabbit	>2000mg/kg
Sodium 4(or 5)-methyl-1H-benzotriazolide	LD50 Oral	Rat	640 – 1980mg/kg
	LD50 Dermal	Rabbit	>2000mg/kg
Sodium nitrite	LD50 Oral	Rat	4700mg/kg
Corrosion Inhibitors and pH Buffers	No data available		
Polydimethylsiloxane	No data available		
Silica filled polydimethylsiloxane	No data available		
Sucrose distearate	No data available		

Skin corrosion/irritation Slightly irritating to skin.

Serious eye damage/ Eye irritation

Slightly irritating to the eye.

Respiratory or skin sensitization

No data available. Not expected to be a sensitizer.

Mutagenicity

No known significant effects or critical hazards.

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: 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 ACGIH.

Reproductive toxicity

No data available.

Teratogenicity

No data available.

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

No data available

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

No data available.

Aspiration hazard

No data available.

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 No data available.

Potential Delayed Health Effects No data available.

Potential Chronic Effects No data available.

Synergistic effects No data available

Section 12 – Ecological Information

Toxicity

Product / Ingredient Name	Result	Species	Exposure
Triethylene Glycol	Acute LC50 >100mg/L	Fish – Leuciscus idus	96 Hr
	Acute EC50 46500mg/L	Daphnia – Daphnia magna	24 Hr
Potassium hydroxide	LC50 28.6mg/L	Fish – Pisces	96 Hr
Phosphoric acid, 75%, aqueous solution	LC50 138mg/L	Fish – Pisces	96 Hr
	LC50 18500mg/L	Fish – Oncorhynchus mykiss	96 Hr
Ethylene Glycol	LC50 >1000mg/L	Fish – Leuciscus idus	48 Hr
	EC50 74000mg/L	Daphnia – Daphnia magna	24 Hr
Disodium tetraborate, pentahydrate	LC50 100 – 1000mg/L	Fish – Pisces	96 Hr
	EC50 340mg/L	Daphnia – Daphnia magna	24 Hr
Sodium 4(or 5)-methyl-1H-benzotriazole	LC 50 25mg/L	Fish – Oncorhynchus mykiss	96 Hr
	EC 50 280mg/L	Daphnia – Daphnia magna	24 Hr
Sodium Nitrite	LC50 0.19mg/L	Fish – Oncorhynchus mykiss	96 Hr
Corrosion Inhibitors and pH Buffers	No data available		
Polydimethylsiloxane	No data available		
Silica filled polydimethylsiloxane	No data available		
Sucrose distearate	No data available		

Persistence and degradability >70% - readily biodegradable

Bioaccumulative potential No bioaccumulation is to be expected (log Pow ≤4)

Mobility in soil No data available.

PBT and vPvB assessment No data 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

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:

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Date of Revision	April 1, 2025

SDS Prepared by: CFR Lab Manager

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