

Date of Revision: April 1, 2025

Section 1 - Chemical Product and Company Identification

Product Name CFR StaTherm Booster **Synonyms** StaTherm SRE Booster

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

General Assistance 1 (877) 269-3419

Emergency Telephone 613-966-6666 (CANUTEC 24 Hour Phone Number)

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Section 2 – Hazard Identification

Signal Word GHS Pictogram(s)

Danger





Hazard Statement:

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary Statement

P260 Do not breath dust/gas/mist/vapours. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/eye protection/face protection.

Response

P321 Specific treatment (see supplemental first aid instructions on this label).

P363 Wash contaminated clothing before reuse.

P301 + P312 IF SWALLOWED: Immediately call a POISON Center or doctor/physician.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin

with water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing 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

P405 Store locked up.

Disposal

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

GHS Classification Acute Toxicity (oral) (Category 4)

Skin corrosion/irritation (Category 1A)



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HMIS Classification

Health Hazard Chronic Health Hazard Flammability Physical Hazards 0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Skin May be harmful if absorbed through skin.

Eye Causes eye irritation.

May be harmful if swallowed. Ingestion

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER		
Potassium hydroxide	Caustic Potash, Lye	10 – 41.6%	1310-5-3		
Phosphoric acid, 75%, aqueous solution	Orthophosphoric Acid	10 – 40%	7664-38-2		
Ethylene Glycol	1,2-ethanediol, EG, Glycol	1 – 40%	107-21-1		
Disodium tetraborate, pentahydrate	Not Applicable	1 – 20%	12173-04-3		
Sodium 4(or 5)-methyl-1H- benzotriazolide	Not Applicable	0.49 – 10.2%	64665-57-2		
Polydimethylsiloxane	Not Applicable	0.5 – 2%	63147-62-9		
Silica filled polydimethylsiloxane	Not Applicable	0.01 – 1%	67762-90-7		
Sucrose distearate	Not Applicable	0.01 – 1%	27915-16-0		
* = Various ** = Mixture *** = Proprietary					

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.
Eve Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and

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



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immediately. Maintain an open airway. Loosen tight clothing such as collar, tie,

belt or waistband.

Most Important Symptoms/Effects both Acute and Delayed

Causes severe skin burns and irritation. Swallowing a small quantity of this

material will result in a severe health hazard.

Note to Physician No information available.

Section 5 – Fire-Fighting Measures

Flash Point (°C) Not applicable

Flash Point Method PMCC

Auto Ignition Temperature No data available

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.



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Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name Exposure Limits

Ethylene Glycol Canada, Alberta OHSC Code

> 100mg/m³ **ACGIH TLV**

> > TLV: 100mg/m³

Canada, Alberta OHSC Code Potassium hydroxide

None established

ACGIH

Ceiling: 2mg/m³

Phosphoric acid, 75%, aqueous

solution

Canada, Alberta OHSC Code

1mg/m³

ACGIH

TWA: 1mg/m³ STEL: 3mg/m³

OSHA PEL

TWA 1mg/m³

Disodium tetraborate, pentahydrate

Canada, Alberta OHSC Code

TWA: 1mg/m³ Ceiling: 3mg/m³

ACGIH

TWA: 2mg/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)

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.

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

Skin protection



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Not Available

Not Available

Not Available

Not available.

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)**

ventilation equipment.

Section 9 – Physical and Chemical Properties

Physical State Water Solubility miscible Liquid 100°C Appearance & Odour Clear, colourless to pale **Boiling Point**

yellow. Odourless.

Vapour Pressure 17 mmHg (20.0°C) **Boiling Point Range** 100 - 196°C **Vapour Density** >1 (Air = 1) **Melting Point** <-40°C **Specific Gravity** 1.44 **Freezing Point** <-40°C

Partition coefficient (n-

octonal/water)

Not available. **Upper Explosive Limit (UEL)** pН Flashpoint (Method) Not flammable **Auto Ignition temperature Odour Threshold** Not available. **Evaporation Rate**

Flammability (Solid, Gas) Not available.

Decomposition Temperature Not available. Viscosity Not available.

Section 10 - Stability and Reactivity

Reactivity Thermal decomposition generates: Corrosive vapours.

Chemical stability Stable under recommended storage conditions. No data available.

Not available.

Possibility of hazardous

Conditions to avoid

reactions

No data available.

Materials to avoid Strong acids. 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

Causes severe skin burns and irritation.

Eye contact

May cause eye irritation.

Ingestion



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May cause abdominal discomfort or pain, nausea, vomiting, dizziness, drowsiness, malaise, blurring of vision, irritability, lumbar pain, oliguria, uremia, and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure, pulmonary edema, and severe kidney damage may develop. May be fatal if swallowed, lethal dose in adult humans for ethylene glycol is approximately 100 mL

Acute and Chronic Toxicity

Poison. Toxic if swallowed. If swallowed there is a risk of blindness.

Acute toxicity

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

Skin corrosion/irritation Causes severe skin burns and eye damage.

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.

Reproductive toxicity TeratogenicityNot classified.
Not classified.

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
Potential Delayed Health Effects
No data available.
Potential Chronic Effects
No data available.
No data available.



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Synergistic effects No data available

Section 12 - Ecological Information

Toxicity

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

Persistence and degradability
Bioaccumulative potential
Mobility in soil

PBT and vPvB assessment

No data available.

No data available.

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)

Shipping Name UN3082, Environmentally Hazardous Substances, liquid, N.O.S. (Ethylene Glycol),

9, III

Class 9

UN Number UN3082 Packaging Group:



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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
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SDS Prepared by: CFR Lab Manager

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