

Date of Revision: March 15, 2022

# Section 1 - Chemical Product and Company Identification

Product Name	CFR StaTherm SRE Booster
Synonyms	Not available
Product Use	Various use, chemical intermediate, heat transfer fluid
<b>Restrictions On Use</b>	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)
Date of Preparation of SDS	April 1, 2017

# 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	lenses, in present and easy to do. Continue mising.
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 Hazard1Chronic Health Hazard\*Flammability1Physical Hazards0

#### **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.
Ingestion	May be harmful if swallowed.

# 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 *** = Pi	roprietary	

#### **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



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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. No information available.

Note to Physician

# 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 Conditions for safe storage	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. 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.



**Occupational Exposure Limits** 

# Safety Data Sheet - GHS CFR StaTherm SRE Booster

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# Section 8 – Exposure Controls / Personal Protection

	<b>_</b>
Ingredient Name	Exposure Limits
Ethylene Glycol	Canada, Alberta OHSC Code
	100mg/m <sup>3</sup>
	ACGIH TLV
	TLV: 100mg/m <sup>3</sup>
Potassium hydroxide	Canada, Alberta OHSC Code
	None established
	ACGIH
	Ceiling: 2mg/m <sup>3</sup>
Phosphoric acid, 75%, aqueous	
solution	1mg/m <sup>3</sup>
	ACGIH
	TWA: 1mg/m <sup>3</sup>
	STEL: 3mg/m <sup>3</sup>
	OSHA PEL
	TWA 1mg/m <sup>3</sup>
Disodium tetraborate, pentahy	
	TWA: 1mg/m <sup>3</sup>
	Ceiling: 3mg/m <sup>3</sup>
	ACGIH
	TWA: 2mg/m <sup>3</sup>
Sodium 4(or 5)-methyl-1H-	Canada, Alberta OHSC Code
benzotriazolide	None established
Polydimethylsiloxane	Canada, Alberta OHSC Code
	None established
Silica filled polydimethylsiloxan	
	None established
Sucrose distearate	Canada, Alberta OHSC Code
	TWA: 10mg/m <sup>3</sup> (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
Pospiratory protection	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	מאטו טאבת אומותמות וו מ וואג מאאראטוונות וותונמנפא נוווא וא וופנפאאו א.
General hygiene	



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#### Considerations

Specific engineering controls

Handle in accordance with good industrial hygiene and safety. Eye wash fountains and safety showers must be easily accessible.

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 Appearance & Odour	Liquid Clear, colourless to pale yellow. Odourless.	Water Solubility Boiling Point	miscible 100°C
Vapour Pressure	17 mmHg (20.0°C)	Boiling Point Range	100 – 196°C
Vapour Density	>1 (Air = 1)	Melting Point	Not Available
Specific Gravity	1.44	Freezing Point	Not Available
Partition coefficient (n- octonal/water)	Not available.	Lower Explosive Limit (LEL)	Not Available
рН	Not available.	Upper Explosive Limit (UEL)	Not Available
Flashpoint (Method)	Not flammable	Auto Ignition temperature	Not Available
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 Chemical stability Possibility of hazardous	Thermal decomposition generates: Corrosive vapours. Stable under recommended storage conditions. No data available.
reactions	
Conditions to avoid Materials to avoid	No data available. Strong acids. Strong bases.
Hazardous decomposition pro	0
	Carbon oxides.

**Section 11- Toxicological Information** 

#### Information on Likely Routes of Exposure

Inhalation:
May be harmful if inhaled. May cause respiratory tract irritatior
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 LD50 Oral Rat 4700mg/kg **Ethylene Glycol** LD50 Dermal Rabbit 10626mg/kg Potassium hydroxide LD50 Oral Rat 333mg/kg Phosphoric acid, 75%, aqueous solution LD50 Oral Rat 4400mg/kg LD50 Oral >2000mg/kg Rat Disodium tetraborate, pentahydrate >2000mg/kg LD50 Dermal Rabbit LD50 Oral Rat 640 - 1980mg/kg Sodium 4(or 5)-methyl-1H-benzotriazolide LD50 Dermal Rabbit >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	on			
	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	Not classified.			
Teratogenicity	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 H	lealth 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.		



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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	No data available.
Bioaccumulative potential	Does not bioaccumulate.
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)

Shipping Name	UN3082, Environmentally Hazardous Substances, liquid, N.O.S. (Ethylene Glycol),
	9, 111
Class	9
UN Number	UN3082
Packaging Group:	III



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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
Date of Revision	March 15, 2022

SDS Prepared by: CFR Lab Manager

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