



Safety Data Sheet – GHS StaCool 60%

Date of Revision: April 1, 2025

Section 1 - Chemical Product and Company Identification

Product Name StaCool 60%

Synonyms CFR StaCool SREN-60, StaCool Custom Inhibitor Package

Product Use Industrial Heat Transfer Fluid, Compressor 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 Not Dangerous Goods – Call General Assistance

Date of Preparation of SDS April 1, 2017

Section 2 - Hazard Identification

Signal Word GHS Pictogram(s)

Warning



Hazard Statement:

H302 Harmful if swallowed.

H373 May cause damage to organs (Kidney) through prolonged or repeated exposure if

swallowed.

Precautionary Statement

Prevention

P260 Do not breathe 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

P301 + P312 +P330 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

Rinse Mouth.

P314 Get medical advice/attention if you feel unwell.

Storage

No Statements.

Disposal

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

GHS Classification Acute Toxicity (oral) (Category 4)

Specific target organ toxicity - repeated exposure, oral (Kidney) (Category 2)

HMIS Classification

Health Hazard 1





Safety Data Sheet – GHS StaCool 60%

Date of Revision: April 1, 2025

Chronic Health Hazard *
Flammability 1
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.

Ingestion May be harmful if swallowed.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT, Common Name	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Ethylene Glycol	1,2-ethanediol, EG, Glycol	49 – 65%	107-21-1
Water	Aqua	35 – 50%	7732-18-5
Potassium hydroxide	Caustic Potash, Lye	0.4 - 2.0%	1310-5-3
Phosphoric acid, 75%, aqueous solution	Orthophosphoric Acid	0.4 - 2.0%	7664-38-2
Disodium tetraborate, pentahydrate	Not Applicable	0.05 - 1.2%	12173-04-3
Sodium Nitrite	Not Applicable	0.02 - 0.8%	7362-00-00
Sodium 4(or 5)-methyl-1H- benzotriazolide	Not Applicable	0.02 – 0.8%	64665-57-2
Polydimethylsiloxane	Not Applicable	0.02 - 0.14%	63147-62-9
Silica filled polydimethylsiloxane	Not Applicable	0 – 0.06%	67762-90-7
Sucrose distearate	Not Applicable	0 – 0.06%	27915-16-0
	* = Various ** = Mixture *** = P	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 $\frac{1}{2}$ 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





StaCool 60%

Date of Revision: April 1, 2025

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. May cause damage to the kidneys if swallowed. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May cause slight eye and skin irritation. Symptoms include: Redness, swelling, itching

and dryness. Suspected of damaging the unborn child.

Note to Physician Kidney toxicity may be recognized by blood in the urine or increased or decreased

urine flow. Other signs and symptoms can include nausea, vomiting, abdominal cramps, diarrhea, lumbar pain shortly after ingestion, and possibly narcosis and death. Eye irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blurred vision. Skin irritation signs and symptoms may include a burning sensation, redness, swelling, and/or blisters. Respiratory irritation signs and symptoms may include a temporary burning sensation of the

nose and throat, coughing, and/or difficulty breathing.

IMMEDIATE TREATMENT IS EXTREMELY IMPORTANT! May cause significant renal, respiratory, and CNS toxicity. May cause significant acidosis. Call a doctor or

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

poison control center for guidance.

Section 5 - Fire-Fighting Measures

Flash Point (°C) Not flammable

Flash Point Method PMCC Auto Ignition Temperature 225°C

Conditions of Flammability Not flammable or combustible.

Extinguishing Media

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.





StaCool 60%

Date of Revision: April 1, 2025

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.

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

Potassium hydroxide Canada, Alberta OHSC Code

None established

ACGIH

Ceiling: 2mg/m³

Phosphoric acid, 75%, aqueous solution Canada, Alberta OHSC Code

 1mg/m^3

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

Polydimethylsiloxane Canada, Alberta OHSC Code

None established

Silica filled polydimethylsiloxane Canada, Alberta OHSC Code

None established

Canada, Alberta OHSC Code

Sucrose distearate Canada, Alberta OHSC Code
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.





StaCool 60%

Date of Revision: April 1, 2025

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 StateLiquidWater SolubilitymiscibleAppearance & OdourClear, Blue. Odourless.Boiling PointNot availableVapour Pressure0.06 kPa (20.0°C)Boiling Point RangeNot applicable.

Vapour Density $2.14 \, (Air = 1)$ Melting Point $-34^{\circ}C$ Specific Gravity1.06 - 1.09Freezing Point $-34^{\circ}C$

Partition coefficient (n- Not available. Lower Explosive Limit (LEL) Not available.

octonal/water)

pH 8.5-8.7 Neat Upper Explosive Limit (UEL) Not available.

9-9.2 (5% solution in water)

Flashpoint (Method) Not flammable Auto Ignition temperature 225°C

Odour Threshold Not available. Evaporation Rate Not available.

Flammability (Solid, Gas) Not available.

Decomposition Temperature 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 No data available.

reactions

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.





StaCool 60%

Date of Revision: April 1, 2025

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, 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	
Sodium nitrite	LD50 Oral	Rat	4700mg/kg	-
Polydimethylsiloxane	No data available			
Silica filled polydimethylsiloxane	No data available			
Sucrose distearate	No data available			

Skin corrosion/irritationCauses severe skin burns and eye damage.

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.

Reproductive toxicityOverexposure may cause reproductive disorder(s) based on tests with laboratory

animals.

Teratogenicity Laboratory experiments have shown teratogenic effects.

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

No data available

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

Oral - May cause damage to organs through prolonged or repeated exposure. -

Kidney

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.

PAGE 6 of 8





StaCool 60%

Date of Revision: April 1, 2025

Potential Chronic Effects
Synergistic effects

No data available.

No data available

Section 12 – Ecological Information

Toxicity

Product / Ingredient Name	Result	Species	Exposure
	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
Potassium hydroxide	LC50 28.6mgL	Fish – Pisces	96 Hr
Phosphoric acid, 75%, aqueous solution	LC50 138mgL	Fish – Pisces	96 Hr
Disadium totrahorata, nontahudrata	LC50 100 - 1000mg/L	Fish – Pisces	96 Hr
Disodium tetraborate, pentahydrate	EC50 340mg/L	Daphnia – Dapnhia magna	24 Hr
Sodium Nitrite	LC50 0.19mgL	Fish – Oncorhynchus mykiss	96 Hr
Sodium 4(or 5)-methyl-1H-benzotriazolide	LC 50 25mgL	Fish – Oncorhynchus mykiss	96 Hr
30didiii 4(01 3)-iiietiiyi-1A-benzotiiazoiide	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

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)

Not Dangerous Goods

Section 15 - Regulatory Information

DSL (Canadian Domestic Substances List)





Safety Data Sheet – GHS StaCool 60%

Date of Revision: April 1, 2025

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 April 1, 2025

SDS Prepared by: CFR Lab Manager

CFR Chemicals Inc. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. CFR Chemicals Inc. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, CFR CHEMICALS INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OR RELIANCE UPON THIS INFORMATION.