

Date of Revision: June 19, 2019

## Section 1 - Chemical Product and Company Identification

Product Name	CFR P301 Propylene Glycol Inhibitor
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	Not Dangerous Goods – Call General Assistance
Date of Preparation of SDS	April 1, 2017

## Section 2 – Hazard Identification

Signal Word GHS Pictogram(s) Danger



HMIS C	lassification Health Hazard	1
GHS Cla	assification	Skin corrosion/irritation (Category 1A)
	P501	Dispose of contents/container to an approved waste disposal unit.
Disposa	al	
	P405	Store locked up.
Storage	2	
		lenses, if present and easy to do. Continue rinsing.
	P305 + P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing
	P363	Wash contaminated clothing before reuse.
	P303 + P361 + P353	IF ON SKIN (OR HAIR): Take off immediately all contaminated clothing. Rinse skin with water/shower.
		C C
	P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P321 P310	Specific treatment (see supplemental first aid instructions on this label). Immediately call a POISON Center or doctor/physician.
Respor		Charific treatment (see supplemental first aid instructions on this label)
D	P280	Wear protective gloves/eye protection/face protection.
	P264	Wash skin thoroughly after handling.
	P260	Do not breath dust/gas/mist/vapours.
Precau	tionary Statement	
_	H314	Causes severe skin burns and eye damage.
Hazard	Statement:	



Date of Revision: June 19, 2019

Chronic Health Hazard	*
Flammability	1
Physical Hazards	0

#### **Potential Health Effects**

Inhalation	May be harmful if inhaled.	
Skin	Causes severe skin burns and eye damage.	
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	13 – 23%	1310-5-3
Phosphoric acid, 75%, aqueous solution	Orthophosphoric Acid	14 – 25%	7664-38-2
Propylene Glycol	1,2-propanediol, PG	7.5 – 17%	57-55-6
Boric Acid	Not Applicable	1.5 – 5%	10043-35-3
Sodium 4(or 5)-methyl-1H- benzotriazolide	Not Applicable	0-2.3%	64665-57-2
Polydimethylsiloxane	Not Applicable	0-0.45%	63147-62-9
Silica filled polydimethylsiloxane	Not Applicable	0-0.225%	67762-90-7
Sucrose distearate	Not Applicable	0-0.225%	27915-16-0
	* = Various ** = Mixture *** = F	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.
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



Date of Revision: June 19, 2019

Causes severe skin burns and irritation. 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
<b>Conditions of Flammability</b>	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 oxidizing agents. Strong bases

## Section 8 – Exposure Controls / Personal Protection

#### **Occupational Exposure Limits**



Safety Data Sheet - GHS **CFR P301** 

Date of Revision: June 19, 2019

Ingredient Name	Exposure Limits
Propylene Glycol	Canada, Alberta OHSC Code 200mg/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	Canada, Alberta OHSC Code
solution	1mg/m <sup>3</sup>
	ACGIH
	TWA: 1mg/m <sup>3</sup> STEL: 3mg/m <sup>3</sup>
	Canada, Alberta OHSC Code
Boric Acid	None established
	ACGIH
	TWA: 2mg/m <sup>3</sup>
	STEL: 6mg/m <sup>3</sup>
Sodium 4(or 5)-methyl-1H-	Canada, Alberta OHSC Code
benzotriazolide	None established
Polydimethylsiloxane	Canada, Alberta OHSC Code
rolydimetryisiloxane	None established
Silica filled polydimethylsiloxane	Canada, Alberta OHSC Code None established
Sucrose distearate	Canada, Alberta OHSC Code TWA: 10mg/m <sup>3</sup> (Stearates in general)

# Personal protective equipment

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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.



Date of Revision: June 19, 2019

### Section 9 – Physical and Chemical Properties

Physical State	Liquid	Water Solubility	miscible
Appearance & Odour	Clear, colourless to pale yellow. Odourless.	Boiling Point	100°C
Vapour Pressure	2.4 mmHg (20.0°C)	Boiling Point Range	100 – 196°C
Vapour Density	1.3 (Air = 1)	Melting Point	-30°C
Specific Gravity	1.44	Freezing Point	-30°C
Partition coefficient (n-	Not available.	Lower Explosive Limit (LEL)	Not Available
octonal/water)			
рН	Slightly alkaline	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	Thermal decomposition generates: Corrosive vapours. 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.

#### Skin contact

Causes severe skin burns and 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.



Date of Revision: June 19, 2019

Acute toxicity						
Product/Ingredient Name		Result	Species	Dose	Exposure	
Potassium hydroxide		LD50 Oral	Rat	333mg/kg	-	
Phosphoric acid, 75%, aqueous	solution	LD50 Oral	Rat	4400mg/kg	-	
Propylene Glycol		LD50 Oral	Rat	20000mg/kg	-	
		LD50 Dermal	Rabbit	20800mg/kg	-	
Boric Acid		LD50 Oral	Rat	>2000mg/kg	-	
		LD50 Dermal	Rabbit	>2000mg/kg	-	
Sodium 4(or 5)-methyl-1H-benzotriazolide		LD50 Oral	Rat	2660mg/kg		
		LD50 Dermal	Rabbit	>2000mg/kg		
Polydimethylsiloxane		No data available				
Silica filled polydimethylsiloxane		No data available	No data available			
Sucrose distearate		No data available				
	_					
Skin corrosion/irritation Causes severe skin burns and eye damage.						
Serious eye damage/ Eye irrita	Not classifi	ad				
Respiratory or skin sensitization		eu.				
	Not classifi	ed				
Mutagenicity	Not classifi					
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 -			onized Sys	stem)		
	No data ava					
Specific target organ toxicity -	-		rmonized	System)		
A suive time to see and	No data available. No data available.					
Aspiration hazard Delayed and Immediate Effect			Short and		ocuro	
Short Term Exposure	s allu also Ci	in office Effects from	Short and	Long Term Exp	losure	
Potential immediate F	lealth Fffects	No data availa	hle.			
Potential Delayed Health Effects		No data availa				
Long Term Exposure						
Potential immediate Health Effects		No data availa	No data available.			
Potential Delayed Health Effects		No data availa	No data available.			
Potential Chronic Effects		No data availa	No data available.			
Supergistic offects	No data av	ailablo				

Synergistic effects

No data available

# Section 12 – Ecological Information

Species



Date of Revision: June 19, 2019

Potassium hydroxide		LC50 28.6mgL	Fish – Pisces	96 Hr
Phosphoric acid, 75%, aqueous solution		LC50 138mgL	Fish – Pisces	96 Hr
Propylene		LC50 52930mg/L EC50 >10000mg/L	Fish – Pimephales promelas Daphnia – Daphnia magna	96 Hr 24 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-benzotriazolide		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	Not establishe	ed.		
<b>Bioaccumulative potential</b>	Not established.			
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.



Date of Revision: June 19, 2019

## Section 16 – Other Information

**REVISION SUMMARY:** 

Date of Preparation	April 1, 2017
Date of Revision	June 19, 2019

SDS Prepared by: CFR Lab Manager

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