

Date of Revision: June 19, 2019

### **Section 1 - Chemical Product and Company Identification**

Product Name CPF-203

Synonyms CFR Packer Fluid Inhibitor 203

Product Use Packer Fluid Inhibitor
Restriction on Use None identified
Manufacturer/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** February 1, 2019

#### Section 2 - Hazard Identification

Signal Word GHS Pictogram(s)

Danger





**Hazard Statement:** 

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage

H360 May damage fertility or the unborn child.

H371 May cause damage to organs.

**Precautionary Statement** 

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources.

No smoking

P233 Keep Container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non sparking tools.

P243 Take action to prevent static discharges.

P260 Do no breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P321 Specific Treatment (see label)



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P301 + P312 P301 + P330 + P331	IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTRE or doctor/physician if you feel unwell.
P303 + P361 + P353	IF ON SKIN (or hair) Take off immediately all contaminated clothing, rinse skin with water (or shower).
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTRE.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POICSON CENTRE / Doctor.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: use appropriate media to extinguish.

Storage

P403 + P233 + P235 Store in well-ventilated place. Keep contained tightly closed. Keep Cool

P405 Store locked up.

Disposal

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

**GHS Classification** Flammable liquids (Category 3)

Acute Toxicity, Oral (Category 4)
Skin corrosion/irritation (Category 1C)
Reproductive Toxicity (Category 1B)

Serious eye damage/eye irritation (Category 1)

Specific target organ toxicity - single exposure (Category 2)

**Potential Health Effects** 

**Inhalation** May cause respiratory tract irritation. May cause damage to organs by inhalation.

Prolonged inhalation may be harmful.

SkinCauses severe skin burns.EyeCauses serious eye damage.IngestionHarmful if swallowed.

## **Section 3 – Composition Information on Ingredients**

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER	
Ethylene Glycol	1,2-ethanediol, EG, Glycol	70 – 80%	107-21-1	
Methanol	Methyl alcohol, wood alcohol, carbinol, wood spirits, methyl hydroxide, methyl hydrate	5 – 10%	67-56-1	
Benzyl alkyl pyridinyl quaternary ammonium chloride	Not applicable	1-3%	68909-18-2	
Quaternary ammonium compounds	Not applicable	1 – 3%	68607-28-3	
Ammonium bisulfite	Not applicable	1-3%	10192-30-0	
* = Various ** = Mixture *** = Proprietary				

/livture

Chemical Formula Mixture



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#### **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 center or physician.

Wash out mouth with water and give one half to one glass of water to dilute stomach contents. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do NOT induce vomiting. If vomiting occurs, the head should be

kept low so vomit does not enter the lungs.

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

poison control center for guidance.

## Section 5 – Fire-Fighting Measures

Flash Point (°C) 38.0°C Flash Point Method PMCC

Auto Ignition Temperature Not determined.

**Conditions of Flammability** Flammable in the presence of a source of ignition when the temperature is above

the flash point.

Extinguishing Media Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguising Media Water jet.

**Unusual Fire/** 

**Explosion Hazard** Vapors may collect in low spots and "flash back" from ignition sources.



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Lower explosive limit = 6%, upper explosive limit = 36.5% (Methanol)

**Hazardous Combustion** 

**Products** Carbon oxides, formaldehyde, toxic gases and vapours.

**Special Protective Equipment and** 

**Precautions for Firefighters** Wear full firefighting gear and self-contained breathing apparatus (SCBA) for

protection against possible exposure..

#### 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.

Vapours 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 environmentmust be avoided.

Methods and materials for

containment and cleaning up Contain free liquid if possible. Pick up by covering with an activated carbon

> absorbent or other suitable inert absorbent material (e.g. sand, sawdust, generalpurpose binder). Take up & place in closed containers. Ventilate area & wash spill site after material pickup is complete. Contain and dispose of wash water in

accordance with local regulations.

### Section 7 – Handling and Storage

**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away

from sources of ignition - No smoking. Take measures to prevent the build-up of

electrostatic charge.

**Conditions for safe storage Incompatible Conditions** 

Keep container tightly closed in a dry and well-ventilated place.

Heat, Flames, Sparks. **Incompatible Materials** Oxidizing materials.

## Section 8 – Exposure Controls / Personal Protection

**Occupational Exposure Limits** 

**Ingredient Name Exposure Limits** 

Ethylene Glycol Canada, Alberta OHSC Code

100mg/m<sup>3</sup> **ACGIH TLV** 

TLV: 100mg/m<sup>3</sup>

Methanol Canada, Alberta, Occupational Health

and Safety Code (table 2: OEL)

TWA: 200ppm STEL: 250ppm

Benzyl alkyl pyridinyl quaternary

ammonium chloride

Canada, Alberta, Occupational Health and Safety Code (table 2: OEL)

Not Established

Canada, Alberta, Occupational Health Quaternary ammonium compounds



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and Safety Code (table 2: OEL)

Not Established

Ammonium bisulfite Canada, Alberta, Occupational Health

and Safety Code (table 2: OEL)

Not Established

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 respirator 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 practices. 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	Complete
Appearance & Odour	Clear to hazy, dark brown to black liquid. Pungent odour.	Boiling Point	60°C
Vapour Pressure	No data available	<b>Boiling Point Range</b>	60°C +
Vapour Density	No data available	Melting Point	-40°C
Specific Gravity	1.062 - 1.082	Freezing Point	-40°C
Partition coefficient (n-	Not available	Lower Explosive Limit (LEL)	Not available
octonal/water)			
рН	6.2 – 7.29 (1% v/v in DI water)	Upper Explosive Limit (UEL)	Not available
Flashpoint (Method)	38.0°C (PMCC)	Auto Ignition temperature	Not available
Odour Threshold	Not available	<b>Evaporation Rate</b>	Not available
Flammability (Solid, Gas)	Not available		
<b>Decomposition Temperature</b>	Not available	Viscosity	Not available



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## Section 10 – Stability and Reactivity

Reactivity Containers may rupture or explode if exposed to heat.

**Chemical stability** 

Stable under recommended storage conditions.

Possibility of hazardous

**Reactions** Hazardous polymerization does not occue.

**Conditions to avoid** Heat, flames and sparks. Contact with incompatibles. Temperatures above the

flashpoint.

Materials to avoid

Oxidizing materials.

**Hazardous decomposition** 

**Products** Hazardous decomposition products formed under fire conditions. - Carbon

oxides, Nitrogen oxides.

Other decomposition products - No data available

### **Section 11- Toxicological Information**

#### Information on Likely Routes of Exposure

**Inhalation** May cause respiratory tract irritation. May cause damage to organs by inhalation.

Prolonged inhalation may be harmful.

Causes severe skin burns. Skin Causes serious eye damage. Eye

Ingestion Harmful if swallowed.

**Acute and Chronic Toxicity** 

Poison. Toxic if swallowed, in contact with skin or if inhaled. If swallowed there is

a risk of blindness.

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
Ethylana Chaol	LD50 Oral	Rat	4700mg/kg	-
Ethylene Glycol	LD50 Dermal	Rabbit	10626mg/kg	-
Methanol	LC50 Inhalation,	Rat	128.2mg/L	4 Hr
	vapour	Rat	1187-	-
	LD50 Oral	Rabbit	2769mg/kg	-
	LD50 Dermal		17100mg/kg	
Benzyl alkyl pyridinyl quaternary ammonium	No data available			

Benzyl alkyl pyridinyl quaternary ammonium

chloride

No data available Quaternary ammonium compounds No data available Ammonium bisulfite

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

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

Does not cause skin sensitization. Not a respiratory sensitizer.

**Germ cell Mutagenicity** 

Carcinogenicity

No known significant effects or critical hazards.



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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 a

carcinogen or potential carcinogen by ACGIH.

**Reproductive toxicity** Methanol may cause teratogenic/embryotoxic effects based on studies in

laboratory animals.

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

May cause damage to organs.

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

This substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

**Aspiration hazard** No aspiration toxicity classification.

Delayed and Immediate Effects and also Chronic Effects from Short and Long Term Exposure

**Short Term Exposure** 

**Potential immediate Health Effects** 

Causes severe skin burns and eye damage. Causes serious eye damage.

**Potential Delayed Health Effects** 

Can cause damage to organs through prolonged or repeated exposure.

**Long Term Exposure** 

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

Potential Chronic Effects May cause liver and kidney damage.

**Synergistic effects** Alcohols may interact synergistically with chlorinated solvents (example - carbon

tetrachloride, chloroform, bromotrichloromethane), dithiocarbamates (example -

disulfiram), dimethylnitrosamine and thioacetamide.

## **Section 12 - Ecological Information**

#### Toxicity

Product / Ingredient Name	Result	Species	Exposure
Ethylene Glycol	LC50 18500mg/L LC50 >1000mg/L EC50 74000mg/L	Fish – Oncorhynchus mykiss Fish – Leuciscus idus Daphnia – Daphnia magna	96 Hr 48 Hr 24 Hr
Methanol	LC50 15400mg/L NOEC 7900mg/L EC50 >10000mg/L No data available	Fish – Lepomis macrochirus Fish – Oryzias Latipes Daphnia – Daphnia magna	96 Hr 200 Hr 48 Hr
Benzyl alkyl pyridinyl quaternary ammonium chloride	NO data avallable		
Quaternary ammonium compounds	No data available		
Ammonium bisulfite	No data available		

#### Persistence and degradability

Biodegradability

Methanol aerobic

Result: 72 % - readily biodegradable Method: OECD Test Guideline 3-1D



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Other components have unknown biodegradability.

Bioaccumulative potentialNo data available.Mobility in soilNo data available.PBT and vPvB assessmentNo data available.Other adverse effectsNo data available

#### Section 13 - Disposal Considerations

**Product** This combustible material may be burned in a chemical incinerator equipped with

an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service

to dispose of this material.

**Contaminated packaging** Dispose of as unused product.

### **Section 14 - Transportation Information**

CANADA Transportation of Dangerous Goods (TDG)

Shipping Name UN2924, Flammable liquid, Corrosive, N.O.S. (Methanol, Quaternary Ammonium

Sald), 3(8), PG III

Class 3(8)
UN Number UN2924
Packaging Group:

**Environmental hazards** 

Not a marine pollutant.

Transportation in bulk,

if applicableNo data availableSpecial PrecautionsNo data available

## 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 (8b)** 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 February 1, 2019
Date of Revision June 19, 2019

SDS Prepared by: CFR Lab Manager



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