

Date of Revision: March 15, 2022

Section 1 - Chemical Product and Company Identification

Product Name CPF-103

Synonyms CFR Packer Fluid Inhibitor 103

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 April 1, 2017

Section 2 – Hazard Identification

Signal Word **GHS Pictogram(s)** Danger





Hazard Statement:

H226 Flammable liquid and vapour.

Toxic if swallowed, in contact with skin or if inhaled. H301 +H311 +H331

H315 Causes skin irritation.

H319 Causes serious eye irritation. H370 Causes damage to organs.

Precautionary Statement

Prevention

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.

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

P242 Use non sparking tools.

Take action to prevent static discharges. P243

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

P264 Wash thoroughly after handling.

Do not eat, drink or smoke when using this product. P270 P271 Use only outdoors or in a well-ventilated area.

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

Response

Specific Treatment (see label) P321

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. P301 + P310

P330 Rinse mouth.



Date of Revision: March 15, 2022

	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 + P311	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE or doctor/physician.
	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 POISON CENTRE or doctor/physician.
	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P337 + P313	If eye irritation persists: Get medical advice/attention.
	P361 + P364	Take off immediately all contaminated clothing and wash it before reuse.
	P370 + P378	In case of fire: use appropriate media to extinguish.
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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 3)
Acute Toxicity, Inhalation (Category 3)
Acute Toxicity, Dermal (Category 3)
Skin corrosion/irritation (Category 2)

Serious eye damage/eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 1)

HMIS Classification

Health Hazard 2
Chronic Health Hazard *
Flammability 3
Physical Hazards 0

Potential Health Effects

InhalationToxic if inhaled. May cause respiratory tract irritation.SkinToxic if absorbed through skin. Causes skin irritation.

Eye Causes serious eye irritation .

Ingestion Toxic if swallowed.

Section 3 – Composition Information on Ingredients

HAZARDOUS INGREDIENT	Hazardous Ingredient, Synonyms	PERCENT	CAS NUMBER
Methanol	Methyl alcohol, wood alcohol, carbinol, wood spirits, methyl hydroxide, methyl hydrate	10 – 20%	67-56-1
Benzyl alkyl pyridinyl quaternary ammonium chloride	Not applicable	50 – 60%	68909-18-2
Quaternary ammonium chloride	Not applicable	0 – 10%	61789-71-7



Date of Revision: March 15, 2022

111-76-2

0 - 5%

Ethylene Glycol Monobutyl Ether EGMBE; 2-Butoxyethanol; Glycol ether EB; Butyl

cellosolve; Butyl glycol

Ethoxylated amine Not applicable 0 – 5% 91791-17-1

Cyclohexylamine Aminocyclohexane 108-91-8

* = Various ** = Mixture *** = Proprietary

Chemical Formula Mixture

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. Never give anything by mouth to an unconscious person. 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

Acute Poison. Toxic if swallowed, inhaled, or in contact with skin. Causes skin irritation,

and serious eye irritation.

Note to Physician When plasma methanol concentration is higher than 20mg/dL, a 10% solution of

ethanol in 5% aqueous dextrose is an effective intravenous antidote.

Section 5 – Fire-Fighting Measures

Flash Point (°C) 37.8°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.

Unsuitable Extinguising Media Water jet.

Unusual Fire/

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

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

Hazardous Combustion



Date of Revision: March 15, 2022

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

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

Incompatible Conditions

Heat, Flames, Sparks.

Incompatible Materials Oxidizing materials. Acids, Acid anhydrides, Acyl halides and Alkyl halides.

Section 8 - Exposure Controls / Personal Protection

Occupational Exposure Limits

Ingredient Name Exposure Limits

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

Quaternary ammonium chloride Canada, Alberta, Occupational Health

and Safety Code (table 2: OEL)

Not Established

Ethylene Glycol Monobutyl Ether Canada, Alberta, Occupational Health

and Safety Cote (table 2: OEL)

TWA: 20ppm

Ethoxylated amine Canada, Alberta, Occupational Health

and Safety Code (table 2: OEL)

PAGE 4 of 9



Date of Revision: March 15, 2022

Not Established

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

TWA: 10ppm

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, dark brown liquid	Boiling Point	Not available
Vapour Pressure	No data available	Boiling Point Range	91.7 – 101.7°C
Vapour Density	No data available	Melting Point	Not available
Specific Gravity	1.00 - 1.01	Freezing Point	Not available
Partition coefficient (n-	Not available	Lower Explosive Limit (LEL)	Not available

octonal/water)

pH8 - 9 (5% v/v)Upper Explosive Limit (UEL)Not availableFlashpoint (Method)37.8°C (PMCC)Auto Ignition temperatureNot availableOdour ThresholdNot availableEvaporation RateNot availableFlammability (Solid, Gas)Not available

Decomposition Temperature Not available **Viscosity** Not available

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 Vapours may form explosive mixture with air.



Date of Revision: March 15, 2022

Conditions to avoid Heat, flames and sparks.

Materials to avoid Oxidizing materials. Acids, Acid anhydrides, Acyl halides and Alkyl halides.

Attacks copper, aluminum, zinc, nickel and cast iron.

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 Toxic if inhaled. May cause respiratory tract irritation.Skin Toxic if absorbed through skin. Causes skin irritation.

Eye Causes serious eye irritation .

Ingestion Toxic 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 Methanol	Result LC50 Inhalation, vapour LD50 Oral LD50 Dermal No data available	Species Rat Rat Rabbit	Dose 128.2mg/L 1187- 2769mg/kg 17100mg/kg	Exposure 4 Hr - -
Benzyl alkyl pyridinyl quaternary ammonium chloride	NO data available			
Quaternary ammonium chloride	No data available			
Ethylene Glycol Monobutyl Ether	LD50 Oral	Rat	3730mg/kg	-
	LD50 Dermal	Rat	>3000mg/kg	-
Ethoxylated amine	No data available			
Cyclohexylamine	LC50 Inhalation,	Rat	7500mg/m ³	Not
	vapour	Rat	300mg/kg	specified
	LD50 Oral	Rabbit	277mg/kg	-
	LD50 Dermal			-

Skin corrosion/irritation Components of this product are irritating to skin.

Serious eye damage/eye irritation

Components of this product (cyclohexylamine, ethylene glycol monobutyl ether)

can cause serious damage to eyes. Eye irritant.

Respiratory or skin sensitization

Does not cause skin sensitization.

Germ cell 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.

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.



Date of Revision: March 15, 2022

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

laboratory animals.

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

Causes 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

Poison. Toxic if swallowed, in contact with skin or if inhaled. Causes skin irritation. Causes serious eye irritation.. A latent period of several hours may occur between exposure and the onset of symptoms.

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 Methanol Benzyl alkyl pyridinyl quaternary ammonium chloride	Result LC50 15400mg/L NOEC 7900mg/L EC50 >10000mg/L No data available	Species Fish – Lepomis macrochirus Fish – Oryzias Latipes Daphnia – Daphnia magna	Exposure 96 Hr 200 Hr 48 Hr
Quaternary ammonium chloride	No data available		
Ethylene Glycol Monobutyl Ether Ethoxylated amine	LC50 1474mg/L EC50 1550mg/L No data available	Fish – Oncorhynchus mykiss Daphnia – Daphnia magna	96 Hr 48 Hr
Cyclohexylamine	LC50 33mg/L ED50 36.3mg/L	Fish – Oryzias latimes Daphnia – Daphnia magna	96 Hr 48 Hr

Persistence and degradability

Biodegradability

Methanol aerobic

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

Ethylene Glycol aerobic

Monobutyl Ether Result: Readily biodegradable

Cyclohexylamine aerobio

Result: 92 % - readily biodegradable

Other components have unknown biodegradability.

Bioaccumulative potential No data available.



Date of Revision: March 15, 2022

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 UN1993, Flammable liquid, N.O.S. (Methanol), 3. PG II

Class 3

UN Number UN1993

Packaging Group:

Label



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 April 1, 2017
Date of Revision March 15, 2022



Date of Revision: March 15, 2022

SDS Prepared by: CFR Lab Manager

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