

Section 1 Identification

Product Identifier:

(product name)

UniCorr C

Other means of identification:

(product family, synonyms, etc)

Corrosion Inhibitor

Recommended use:

Drilling Fluid Product

Restrictions on use:

Industrial Use Only

Canadian supplier identifier: (Name, full address and phone

number(s))

Blackstone Drilling Fluids Ltd

#700, 215 9th Ave SW Calgary, Alberta T2R 1K3

Emergency telephone number:

(any restrictions on the use of that number, if applicable)

24HR (403) 262-5955

Section 2 Hazard Identification

Hazard Classification:

Physical:

(class, category or subcategory)

Flammable Liquid - Category 4

Health:

Acute Toxicity - Category 4, Inhalation Acute Toxicity - Category 4, Oral Acute Toxicity - Category 4, Dermal Skin corrosion/irritation - Category 1B

Serious eye damage/eye irritation - Category 1

Specific target organ toxicity, single exposure - Category 3

Label Elements:



Signal Word: Danger

Hazard Statement(s): H226 Flammable liquid and vapor

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage

H318 Causes serious eye damage H335 May cause respiratory irritation

Precautionary Statement(s): Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other

ignition sources. No smoking.

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

P264 Wash thoroughly after handling.

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

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P261 Avoid breathing dust/fume/gas/mist/vapors/spray. P271 Use only outdoors or in well-ventilated area.

Response:

P370 + P378 In case of fire: Use water spray, dry powder, carbon dioxide, or foam to extinguish.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel

unwell.

P330 Rinse mouth

P302 + P352 IF ON SKIN: Wash with plenty of water.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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:

P403 Store in well-ventilated place.

P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards which do not result in classification:

n/a

Section 3 Composition/Information on Ingredients

No information.

No information.

Chemical Name	CAS No. (HMIRA Reg#)	Concentration (% Wt. Range)	Common Name and other identifiers
Modified Amine Solution	68909-77-3	20 – 50 %	
Heterocyclic Amine	21652-27-7	1 – 5 %	

Note: Concentrations are expressed in % weight/weight. All other ingredients are considered non-hazardous.

Section 4	First-Aid Measures
Inhalation:	Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.
Skin Contact:	Wash affected areas with water while removing contaminated clothing. Remove contaminated clothing. Immediate medical attention required. Wash soiled clothing immediately.
Eye Contact:	In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Immediate medical attention required.
Ingestion:	Do not induce vomiting. Rinse mouth and then drink plenty of water. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.
Most Important symptoms and	

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effects (acute or delayed):

Immediate medical attention

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and special treatment, if necessary:

Section 5	Fire-Fighting Measures
Suitable Extinguishing Media:	Water spray, dry powder, carbon dioxide, foam.
Specific Methods:	Not listed.
Unsuitable extinguishing Media:	No information.
Specific Hazards:	Nitrogen oxides, carbon oxides. The substances/groups of substances mentioned can be released in case of fire. Under certain conditions in case of fire other hazardous combustion products may be generated.
Special protective equipment and precautions for firefighters:	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Section 6	Accidental Release Measures
Personal Precautions:	Ensure adequate ventilation.
Protective Equipment:	Wear appropriate respiratory protection. Use personal protective clothing.
Emergency Procedures:	No information.
Methods and materials for containment and cleaning up:	Spills should be contained, solidified, and placed in suitable containers for disposal.

Section 7	Handling and Storage
Precautions for safe handling:	See SDS section 10 - Stability and reactivity. See SDS section 5 - Firefighting measures. Protection against fire and explosion: Moderate explosion hazard when exposed to heat or flames. See SDS section 5 - Firefighting measures.
Conditions for safe storage: (including incompatible materials)	Segregate from acids and acid forming substances. Suitable materials for containers: Carbon steel (Iron), Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass Further information on storage conditions: Avoid extreme heat. Keep away from sources of ignition - No smoking. Storage stability: Storage temperature: 20 °C Storage duration: 5 - 12 Months The storage stability is conditional on the used material of the storage container. May discolor after lengthy storage. From the data on storage duration in this safety data sheet no agreed statement regarding the warrantee of application properties can be deduced

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Section 8 Exposure Controls/Personal Protection

Control parameters:

(exposure guidelines or biological exposure limits)

Engineering Measures:

Provide local exhaust ventilation to control vapors/mists.

Personal Protective

Equipment:

Eye/Face: Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing

hazard exists.

Respiratory: Wear a NIOSH-certified (or equivalent) organic vapor/particulate respirator. Do

not exceed the maximum use concentration for the respirator

facepiece/cartridge combination. For emergency or non-routine, high exposure situations, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions. Observe OSHA

regulations for respirator use (29 CFR 1910.134).

Hand: Chemical resistant protective gloves, Consult with glove manufacturer for

testing data.

Skin: Body protection must be chosen depending on activity and possible exposure,

e.g. apron, protecting boots, chemical-protection suit (according to EN 14605

in case of splashes or EN ISO 13982 in case of dust).

Environmental exposure

controls:

No information.

General Safety and hygiene

measures:

Eye wash fountains and safety showers must be easily accessible. Wear

protective clothing as necessary to prevent contact.

Section 9 Physical and Chemical Properties

Appearance:

(physical state, colour, etc.)

Liquid, Light brown

Odour: Amine-like

Odour Threshold: Not available.

pH: 11.0 – 12.0

Melting point/Freezing point: Not available.

Initial boiling point/boiling

range:

Not available.

Flash Point: >100 °C (closed cup)

Evaporation rate Not available.

Flammability: Not readily ignited.

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Safety Data Sheet

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(solid; gas)

Lower flammable explosive

limit:

Not available.

Upper flammable explosive

limit:

Not available.

Specific Gravity: 1.02 ± 0.03 (Water = 1)

Solubility: Soluble in water.

Auto-ignition temperature: Not available.

Decomposition temperature: It is not a self-decompositionable substance.

Viscosity: Not available.

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Section 10	Stability and Reactivity
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Reactivity: Chemically stable

Chemical Stability: The product is chemically stable.

Possibility of hazardous

reactions:

Reacts with oxidizing agents.

Condition to avoid:

(static discharge, shock, open

flame, or vibration)

Not available.

Incompatible materials: Acids

Hazardous decomposition

products:

No hazardous decomposition products if stored and handled as

prescribed/indicated. Hazardous decomposition products: carbon oxides,

nitrogen oxides, nitrous gases.

Thermal decomposition: It is not a self-decompositionable substance.

Section 11 **Toxicological information**

Information on likely routes of

exposure:

Routes of entry for solids and liquids are ingestion and inhalation but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Product Information:

Acute Toxicity:

Assessment of acute toxicity: Of moderate toxicity after short-term inhalation. Of moderate toxicity after short-term skin contact. Of moderate toxicity after single ingestion. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture

represents no acute hazard.

Test Results: Oral

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Type of value: LD50

Species: rat

Value: 1,515 mg/kg (OECD Guideline 401)

Inhalation

Type of value: LC50

Species: rat

Value: > 1.5 mg/l (IRT) Exposure time: 6 h The vapour was tested.

The European Union (EU) has classified this substance as 'harmful'.

Dermal

Type of value: LD50 Species: rabbit

Value: >3000 mg/kg (OECD Guideline 402)

Type of value: LD50 Species: rabbit Value: >1,600 mg/kg

Other Acute:

Assessment of STOT single:

The available information is not sufficient for evaluation.

Irritation / corrosion

Assessment of irritating effects: Corrosive! Damages skin and eyes. May

cause severe damage to

the eyes.

Skin

Species: rabbit Result: Corrosive.

Method: OECD Guideline 404

Species: rabbit Result: Corrosive.

Method: similar to OECD guideline 404

Eye

Species: rabbit Result: Irritant.

Method: OECD Guideline 405

Sensitization

Assessment of sensitization: No sensitizing effect.

Guinea pig maximization test Species: guinea pig Result: Non-sensitizing. Method: OECD Guideline 406

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity:

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: May affect the liver and kidneys as

indicated in animal

studies. After repeated exposure the prominent effect is local irritation. The

substance may cause damage to

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the upper respiratory tract after repeated inhalation, as shown in animal studies.

Experimental/calculated data: rat (male/female) oral feed > 75 days 100, 300

and 1000 mg/kg bw NOAEL: 300 mg/kg

Genetic toxicity

Assessment of mutagenicity: In the majority of studies performed with microorganisms and in

mammalian cell culture, a mutagenic effect was not found. A mutagenic effect was also not observed

in in vivo tests. The substance was not mutagenic in bacteria. The substance was not genotoxic in mammalian cell

culture. The substance was not genotoxic in a test with mammals.

Genetic toxicity in vivo: OECD Guideline 474 Micronucleus assay mouse

(NMRI) oral unspecified negative

Carcinogenicity

Assessment of carcinogenicity: The whole of the information accessible provides no indication of a carcinogenic effect.

Reproductive toxicity

Assessment of reproduction toxicity: The product has not been tested. The statement has been derived from substances/products of a similar structure or composition. The potential to impair fertility cannot be excluded when given at maternally toxic doses. Because the relevance of the results to human health is unclear, further tests will be initiated.

Teratogenicity

Assessment of teratogenicity: In animal studies the substance did not cause malformations.

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further symptoms are possible.

Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 – Toxicological information.

Section 12	Ecological Information
Ecotoxicity:	Aquatic toxicity. Acutely toxic for aquatic organisms. Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.
Persistence and degradability:	Degrades completely.
Mobility in soil:	The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.
Bioaccumulative potential:	Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.
Other adverse effects:	Assessment of terrestrial toxicity Study scientifically not justified.

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Microorganisms/Effect on activated sludge

Toxicity to microorganisms:

DIN EN ISO 8192-OECD 209-88/302/EEC,P. C aquatic activated sludge, domestic/EC20 (0.5 h): > 1,500 mg/l

Nominal concentration.

DIN 38412 Part 8 bacterium/EC50 (16 h): 110 mg/l

The details of the toxic effect relate to the nominal concentration.

OECD Guideline 209 aquatic

activated sludge, domestic/EC50 (3 h): > 1,000 mg/l

Persistence and degradability

Assessment biodegradation and elimination (H2O): Readily biodegradable (according to OECD criteria). Readily biodegradable (according to OECD criteria).

Elimination information:

> 90 % DOC reduction (21 d) (OECD 301 A (new version)) (aerobic, activated

sludge, domestic)

Assessment of stability in water:

According to structural properties, hydrolysis is not expected/probable.

Bio accumulative potential

Assessment transport between environmental compartments.

Additional Information: Sum parameter

Biochemical oxygen demand (BOD) Incubation period 5 d: 800 mg/g

Other ecotoxicological advice:

Due to the pH-value of the product, neutralization is generally required before

discharging sewage into treatment plants.

contents and/or container.

Section 13	Disposal Considerations:
Waste disposal methods:	Do not discharge substance/product into sewer system. Dispose of in accordance with national, state and local regulations.
Container disposal methods:	Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.
Safe handling for disposal	Use all appropriate PPE and engineering controls when handling or disposing

Section 14	Transport Information
UN Number:	UN 1760
UN Proper shipping name:	N/A
Transport hazard class(es):	8
Packing group:	III

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methods:



Environmental hazards: Not available.

Transport in bulk: N/A

(if applicable)

Special precautions: Not available.

Section 15 **Regulatory Information**

Safety, health, and environmental regulations specific to product:

Assessment of the hazard classes according to UN GHS criteria (most recent version):

Acute Tox. 4 (oral) Acute toxicity Acute Tox. 4 (dermal) Acute toxicity Acute Tox. 4 (Inhalation - vapour) Acute toxicity

Skin Corr./Irrit. Skin corrosion/irritation 1B

STOT SE Specific target organ toxicity — single exposure 3 (irritating to respiratory system) Aquatic Acute Hazardous to the aquatic environment - acute

Flam. Liq. 4 Flammable liquids

Aquatic Chronic 3 Hazardous to the aquatic environment - chronic

Eye Dam./Irrit. Serious eye damage/eye irritation

Section 16 Other Information

Health HMIS: NFPA: Health 3 2 Flammability 2 Fire hazard Reactivity Instability 0

Date of the latest revision of October 28, 2020

the SDS:

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assume any liability whatsoever for the accuracy or completeness of the information contained herein.

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