

SAFETY DATA SHEET



1000, 639 – 5th Avenue, SW
CALGARY AB. T2P 0M9
(403) 237-8900

SECTION 1: IDENTIFICATION

Product Name: Mud Safe CR®

General Description: Synthetic Caustic Replacement

REACH Registration: The component in this product has been Registered according to Article 2 REACH Regulation (EC) No. 1907/2008

For General Information: 1-403-237-8900

Date: April 24, 2016

HMIS Rating	
Health	0
Fire	0
Reactivity	0
Personal Protection	A

Rating Scale

4 = Extreme
3 = High
2 = Moderate
1 = Slight
0 = Insignificant

For Chemical Emergency ONLY (spill, leak, fire, exposure or accident), call CANUTEC at 1-613-996-6666

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Product definition: Mixture

Classification per Regulation (EC) No 1272/2008 [CLP]: Not classified

LABEL ELEMENTS

Labeling per Regulation (EC) No 1272/2008 [CLP]

Hazard Symbols: Non allocated

Signal Word: Non allocated

Hazard Statement(s): Non allocated

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Formula
N/A	Proprietary/Trade Secret Claimed

Substances

The identity of this material is a trade secret (29 CFR 1910.1200(i)) and is available to any attending physician, paramedical personnel and/or spill response personnel in the case of an emergency. Proprietary ingredient is non-toxic. There are no additional ingredients present which, within the current knowledge of the manufacturer and in the concentrations applicable, classified as hazardous to the health or environment thus do not require reporting in this section.

Mixtures

Not applicable

SECTION 4: FIRST-AID MEASURES**EMERGENCY OVERVIEW****Potential Health Effects**

- Inhalation:** May cause respiratory tract irritation. Low hazard for usual industrial handling
- Eye:** May cause eye irritation.
- Skin:** May cause skin irritation. Low hazard for usual industrial handling.
- Ingestion:** Ingestion of large amounts may cause gastrointestinal irritation. Low hazard for usual industrial handling.
- Chronic:** No information found.

FIRST AID MEASURES

- EYES:** Flush with water for at least 15 minutes while holding eyelids open. Call a physician if irritation persists. If worn, remove contacts after first 5 minutes.
- SKIN:** Remove contaminated clothing. Wash exposed area with soap and water for at least 15 minutes. Call a physician if rash or other symptoms develop. Launder clothes before reuse.
- INGESTION:** If ingested, may cause loose stools. Drink plenty (2-3 glasses) of water and immediately consult a physician. Do not induce vomiting.
- INHALATION:** Remove to fresh air. Treat symptoms. Seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

- Flash Point:** N/A
- Lower Explosive Limit:** N/A
- Upper Explosive Limit:** N/A
- Extinguishing Media:** Product does not burn, use media suitable for surrounding fire.
- Usual Fire and Explosion Hazards:** None

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods for Containment:** Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
- Methods for Cleaning Up:** Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labeled containers. Prevent large spills from entering sewers or waterways. Never return spills in original containers for re-use. Product can be neutralized with water or acetic acid in accordance to local, state and federal regulations. Always sample spill and calculate via titration the proper amount of neutralizing material to be used to properly neutralize.

SAFETY DATA SHEET



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SECTION 7: HANDLING AND STORAGE

General Handling and Storage Precautions: As with all chemical products and material, take care as to where and how you store them.

Shelf Life: No known limit. Recommended: Use within 1 year.

Special Sensitivity: None

Storage and other Precautions: For increased shelf life keep in a closed container away from incompatible materials.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Ensure adequate ventilation

Personal Protective Equipment:

Eye/Face Protection: Safety glasses. If splashes are likely to occur, wear goggles or face-shield.

Skin and Body Protection: Wear protective gloves, clothing (coveralls)

Respiratory Protection: Not normally required. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Properties Evaluated at Ambient Temperature	Initial Boiling Point: 112°C (234°F)
Appearance: Colorless Liquid	Initial Freeze Point: -23°C (-10°F)
Odor: Odorless	Flash Point: N/A
Specific Gravity: 1.32 ± 0.04	Solubility: Complete / 100%

Note: These physical properties are typical values for this product and not specifications.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials

Incompatibilities with Other Materials: Do not mix with acids or strong oxidizing agents.

Hazardous Polymerization: Will not occur.

SAFETY DATA SHEET



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SECTION 11: TOXICOLOGICAL INFORMATION

LD50:

Oral, rat: LD50 = 2051 mg/kg;

Carcinogenicity:

Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Other Studies: N/A

SECTION 12: ECOLOGICAL INFORMATION

Ecological Studies:

Test Procedure: Hach Reactor Digestion method for Waste Water and Sea Water. Hach Reactor Digestion Method is a semi-micro adaptation of the Standard Methods.

Test Results Conclude Mud Safe CR® was found to be 100% Biodegradable

COD = 9,800 mg/L, BOD = 120 mg/L @ 5 days and 155 mg/L @ 10 days

SECTION 13: DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification prior to disposal.

RCRA P-Series: None listed.

RCRA U-Series: None listed

SECTION 14: TRANSPORT INFORMATION

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Customer is urged to consult 49 CFR 100-177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods. Typical proper shipping names for this product are:

US Department of Transportation (DOT): Not Regulated as a Hazardous Material

Canadian TDG (Transportation of Dangerous Goods): UN 1760, Corrosive Liquid, N.O.S., (Synthetic Caustic), Class 8, PG III (by Aluminum Corrosion Only)

Note: The original manufacturer, formulator and/or blender has determined this product to be corrosive to Aluminum as per TDG criteria, standards and/or regulations, >6.25mm/year at 55C.

IMO (Water Transportation): Not Evaluated

IATA (Air Transportation): Not Evaluated

Rail: Not Evaluated

SECTION 15: REGULATORY INFORMATION
US FEDERAL
TSCA:

All of the chemicals are listed on the TSCA inventory.

Health & Safety Reporting List:

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules:

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b:

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule:

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs:

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances:

None of the chemicals in this product have a TPQ.

Section 313:

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE:

This chemical is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65:

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations
European Labeling in Accordance with EC Directives
European Economic Community
Classification per Directive 67/548/EEC or 1999/45/EC

Not Classified

Risk Phrases: None allocated

Safety Phrases: S2-Keep out of reach of children

S24/25 Avoid contact with skin and eyes

WGK, Germany (Water danger/protection): No data available

Canada - DSL/NDSL

This product is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Class E – by aluminum corrosion only.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List – NPRI

Mud Safe CR® contains no reportable ingredients as per the National Pollutant Release Inventory substance lists.

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SECTION 16: OTHER INFORMATION

OptiFrac Chemical Services under consultation with the original manufacturer, formulator and/or blender has determined this product to be corrosive to Aluminum as per TDG criteria, standards and/or regulations. A copy of the assessment is on file at the offices of OptiFrac and available to Transportation Regulators by contacting OptiFrac at 403-237-8900.

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.