



# PRODUCT DATA SHEET

## Mud Safe CR®

### Synthetic Caustic Replacement

#### Description

**Mud Safe CR®** is the first safe alternative to replace the use of dangerous caustics in modern drilling and completion fluid systems. **Mud Safe CR®** is a synthetic caustic replacement that can be used to maintain or increase pH. It will precipitate magnesium and suppress calcium in high hardness waters. **Mud Safe CR®** will also reduce corrosion and neutralize acid gases such as carbon dioxide and hydrogen sulphide. **Mud Safe CR®** is extremely durable in cold temperatures and is freeze-thaw stable. The risk of severe caustic based burns and the need for personal protective equipment are greatly reduced.

**Mud Safe CR®** is 100% biodegradable and carries a hazardous materials index score (HMIS) of triple zero. **Mud Safe CR®** has undergone rigorous testing protocols and has proven to be non-destructive and not cause irreversible alterations in human skin tissue. In a modified Draize testing procedure, **Mud Safe CR®** scored as a “non-skin irritant”.

#### Features and Benefits

- Effectively increases pH
- Effectively precipitates magnesium and does not donate a sodium ion
- 100% biodegradable
- Non destructive to human skin tissue
- Non-skin irritant, will not cause burns
- Can be used in most drilling fluids
- Extremely durable in cold temperatures
- Eliminate disposal of caustic soda bags
- A great replacement for NaOH and KOH in crosslinked systems
- Excellent buffer for frac fluid systems
- Great stability performance in high temperature and high pressure fluid systems

#### Physical Properties

Form:	Clear liquid	Flash Point:	None
Odor:	Odorless	Initial Freeze Point:	-23°C (-10°F)
Solubility in Water:	100%	Specific Gravity:	1.32 ± 0.04

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## Application

**Mud Safe CR®** can be utilized to maintain high pH levels in any fluid system. Due to its liquid form, required concentrations may be slightly higher than typical forms of dry caustic. Add to fluid or water to raise pH as needed.

## Shipping and Handling

Refer to the Material Safety Data Sheets to outline the proper handling of this product. Rinse empty containers with water and discard as per required regulations.

## Availability

**Mud Safe CR®** is available in bulk and 20 litre pails.

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