

## SECTION 1. IDENTIFICATION

**Product Identifier** DRILL-KAN MRP  
**Other Means of Identification** Surfactant blend in aqueous solution  
**Recommended Use** Drilling Fluid Additive.  
**Supplier Identifier** Prairie Mud Service, 738 6th Street, Estevan, SK S4A 1A4 306-634-3411

**Emergency Phone No.** CANUTEC - (613) 996-6666 or \*666 on cellular phone

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Serious eye damage - Category 1

### Label Elements



Signal Word:

Danger

Hazard Statement(s):

Causes serious eye damage.

Precautionary Statement(s):

Prevention:

Obtain special instructions before use.

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

Do not breathe dust/fume/gas/mist/vapours/spray.

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

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTRE or doctor.

Storage:

Store locked up.

Disposal:

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Diethanolamine	111-42-2	5-10		
1-Butanol	71-36-3	<0.5		

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

Move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. If adverse symptoms develop, seek medical attention.

#### Skin Contact

Remove contaminated clothing, launder before re-use. Wash gently and thoroughly with lukewarm, gently flowing water and non-abrasive soap. If irritation develops or persists, seek medical attention.

#### Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 15 minutes, while holding the eyelid(s) open. Obtain medical attention.

#### Ingestion

DO NOT INDUCE VOMITING. Get immediate medical attention.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

CO<sub>2</sub>, dry chemical, foam, water spray, water fog.

### Specific Hazards Arising from the Product

Do not inhale explosion and combustion gases.

### Special Protective Equipment and Precautions for Fire-fighters

Use suitable breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Suitable material for taking up: absorbing material, organic, sand.  
Wash with plenty of water.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Do not use empty container before they have been cleaned.  
Before making transfer operations, assure that there are not incompatible material residuals in the containers.  
Contaminated clothing should be changed before entering eating areas. Do not eat or drink while working.

### Conditions for Safe Storage

Always keep containers tightly closed. Keep away from food, drink and feed.  
Adequate ventilation in working areas. Packaging in plastic drums.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Diethanolamine

ACGIH TLV TWA: 1 mg/m<sup>3</sup>

NIOSH REL: 3 ppm; 15 mg/m<sup>3</sup>

ACGIH® = American Conference of Governmental Industrial Hygienists.

TLV® = Threshold Limit Value.

TWA = Time-Weighted Average.

NIOSH = The National Institute for Occupational Safety and Health

REL = Recommended Exposure Limit.

### Appropriate Engineering Controls

Provide mechanical ventilation to prevent vapour/mist accumulation.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Use protective clothing and gloves that provide comprehensive protection.

Chemical-resistant protective gloves: neoprene, nitrile/butadiene rubber, polyvinyl chloride.

#### Respiratory Protection

A NIOSH-approved dust respirator is recommended.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Clear amber liquid.
Odour	Mild
Odour Threshold	Not available
pH	8.0
Melting Point/Freezing Point	Not available (melting); Not available (freezing)
Initial Boiling Point/Range	100 °C
Flash Point	94 °C
Evaporation Rate	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.08 at 15 °C
Solubility	Soluble in water; Not available (in other liquids)
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
<b>Other Information</b>	
Physical State	Liquid
Bulk Density	9 kg/m <sup>3</sup>
Surface Tension	Not available
Critical Temperature	Not available
Saturated Vapour Concentration	Not available
Other Physical Property 1	Pour Point: - 17°C
Other Physical Property 2	Percent volatile: 92.35%

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

## **Incompatible Materials**

Avoid contact with reactive chemicals.

## **Hazardous Decomposition Products**

Smoke, carbon monoxide, carbon dioxide, other products of incomplete combustion.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Likely Routes of Exposure**

Skin contact; eye contact.

### **Acute Toxicity**

LD50 Oral Rat: >2000 mg/kg. Based on components.

### **Skin Corrosion/Irritation**

Repeated and prolonged contacts may cause slight irritation.

### **Serious Eye Damage/Irritation**

Causes serious eye damage.

### **STOT (Specific Target Organ Toxicity) - Single Exposure**

#### **Inhalation**

No information was located.

#### **Ingestion**

Swallowing this material causes irritation of the mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain.

No information was located for: STOT (Specific Target Organ Toxicity) - Repeated Exposure, Respiratory and/or Skin Sensitization, Carcinogenicity, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

LC50 Fish: 2.4 mg/L 96 hours

EC50 Daphnia magna: 3.2 mg/L 48 hours

IC50 Algae: 3.9 mg/L 72 hours

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **Disposal Methods**

Dispose of in accordance with federal, provincial and local government regulations. Containers should be disposed of in accordance with government guidelines.

Empty containers contains product residue which may exhibit hazard of product.

## **SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

**Special Precautions** Please note: Not regulated (for non-bulk).

If the bulk exceeds >20,000 lbs the RQ for diethanolamine:" RQ, UN3082. Environmentally hazardous substances, liquid, n.o.s, (diethanolamine), 9, PG-III.

## **SECTION 15. REGULATORY INFORMATION**

### **Safety, Health and Environmental Regulations**

#### **Canada**

##### **WHMIS 1988 Classification**



Class D2B

D2B - Toxic

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

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All the ingredients as such or as chemical group are registered on DSL.

**USA**

**Additional USA Regulatory Lists**

SARA 302: Extremely Hazardous Substance

SARA 304: Emergency Release Notification

SARA 311/312: Hazardous Chemical

SARA 313: This product may contain chemical(s) regulated under the SARA.

US California Proposition 65: This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

**SECTION 16. OTHER INFORMATION**

**NFPA Rating**                      **Health - 3**      **Flammability - 1**                      **Instability - 0**

**SDS Prepared By**              Prairie Mud Service

**Phone No.**                        (306) 634-3411

**Date of Last Revision**      April 17, 2019

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