

SAFETY DATA SHEET

Section 1: IDENTIFICATION

Product Name:Potassium HydroxideRecommended Use:Drilling Fluid AdditiveSupplier:Bri-Chem Supply Ltd.

27075 Acheson Road Acheson, AB T7X 6B1

780-962-9490

Emergency Telephone: 1-800-535-5053 (Infotrac)

Section 2: HAZARD(S) IDENTIFICATION

Classification

This product is considered hazardous under the U.S OSHA 29 CFR 1910.1200 Hazard Communication Standard.

Acute Tox. (Oral): Category 4
Skin Corrosion/Irritation: Category 1
Eye Damage/Irritation: Category 1
Corrosive to Metals: Category 1

Label Elements

GHS Pictograms:



Signal Word: Danger

Hazard Statements: May be corrosive to metals. Harmful if swallowed. Causes severe

skin burns and eye damage.

Precautionary Statements

Prevention: Keep only in original container. Wash thoroughly after handling. Do

not eat, drink or smoke when using this product. Do not breathe dusts or mists. Wear protective gloves/protective clothing/eye

protection/face protection.

Response: Absorb spillage to precent material damage. Wash contaminated

clothing before reuse. Immediately call a poison center/doctor.

Skin: If on skin (or hair): take off immediately all contaminated clothing.

Rinse skin with water/shower.



SAFETY DATA SHEET

Inhalation: If inhaled: Remove person to fresh air and keep comfortable for

breathing.

Ingestion: If swallowed: Rinse mouth. Do NOT induce vomiting.

If swallowed: Call a poison center/doctor if you feel unwell.

Eye: If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Storage: Store in corrosive resistant container with a resistant inner liner

Disposal: Dispose of contents in accordance with local/regional/national

regulations

Hazard Not Other Classified: None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance

Chemical Name: Potassium Hydroxide

Formula: KOH

Molecular Weight:56.11 g/molCAS No:1310-58-3Concentration:<= 95 %</th>

Section 4: FIRST-AID MEASURES

First-Aid Measures

General Advice: If exposed or concerned get medical advice. Show this safety

data sheet to the doctor in attendance.

Eye Contact: Immediately rinse with plenty of water. Remove contact lenses,

if present and easy to do so. Keep eye wide open while rinsing. Continue rinsing for 15 minutes. Seek immediate medical

attention.

Skin Contact: Wash off immediately with plenty of water for at least 15

minutes. Immediately remove all contaminated clothes and shoes. Wash clothing and shoes before reuse. Seek immediate

medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, dive oxygen. Get medical attention.

Do not induce vomiting. Give large quantities of water. Never

give anything by mouth to an unconscious person. Get medical

attention.



SAFETY DATA SHEET

Most Important Symptoms/Effects, Acute and Delayed

Symptoms: No information available

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing

Media:

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable Extinguishing

Media:

No information available

Specific Hazards Arising

from the Chemical:

Hazardous Combustion Products:

Can react with metals to produce a hydrogen gas

Thermal decomposition can lead to the release of irritation or

toxic gases and vapors; including and not limited to: Potassium

oxides.

Protective Equipment and

Precautions for Fire-

Fighters:

As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent) and

full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Avoid contact with eyes, skin and clothing. Do not breathe

dust/fume/vapor/spray. Evacuate personnel to safe areas. Use

personal protection recommended in Section 8. Ensure

adequate ventilation.

Methods and Material for Containment and Cleaning Up

Methods for Clean-up: Collect spillage. Keep unauthorized personnel away. Keep in

suitable closed containers for disposal.

Environmental Precautions: Prevent entry into waterways or sewers. Avoid release to the

environment.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:

Handle in a well-ventilated environment. Do not breathe vapors / spray / mist / fume. Avoid contact with skin, eyes or clothing. Wear personal protective equipment in section 8. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wash before breaks and at the end of the workday. Do not eat, drink or smoke when using this product. Clean

equipment and work area regularly.



SAFETY DATA SHEET

Conditions for Safe Storage,

Including any Incompatibilities:

Keep container tightly closed in a dry and well-ventilated place. Keep containers closed and labeled when not in use. Store locked up. Store in corrosive resistant container. Store under

inert gas. Air sensitive.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name ACGIH NIOSH OSHA

Potassium Hydroxide 1310-

58-3

2 mg/m³ 2 mg/m³

Appropriate Engineering

Controls:

Ensure adequate ventilation, especially in confined areas. Consider the potential hazards of this material, applicable exposure limits, job activities and other substances in the workplace when designing controls and selecting personal

protective equipment.

Personal Protective Equipment

Eye/Face Protection: Tightly fitting safety goggles. If dusting or splashing is possible

wear face shield.

Skin Protection: Wear impervious protective clothing, including boots, gloves,

lab coat, apron or coveralls. Choose the appropriate protective clothing and gloves based on the tasks being performed to avoid

exposure to skin.

Respiratory Protection: If exposure limits are exceeded or if irritation or other symptoms

are experienced use a NIOSH/MSHA approved respirator.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White

Physical State: Solid

Odor: Odorless

Odor Threshold: No information available

pH: 13.5 (5.611 g/l @ 25°C)

Melting Point / Freezing

Point:

No information available

Boiling Point / Boiling

Range:

No information available

Flash Point: No information available



SAFETY DATA SHEET

Evaporation Rate: No information available **Flammability:** No information available

Flammability or Explosive Limits

Upper:No information availableLower:No information availableVapor Pressure:No information availableVapor Density:No information available

Specific Gravity: 2.04 g/cm³ at 20°C

Solubility in Water: Soluble

Partition Coefficient:No information availableAuto-Ignition Temperature:No information availableDecompositionNo information available

Temperature:

Viscosity: No information available

Section 10: STABILITY AND REACTIVITY

Reactivity: None known under normal conditions. Exothermic

dissolution process.

Chemical Stability: Stable under ordinary conditions of use and storage.

Possibility of Hazardous

Reactions:

None known under normal processing.

Conditions to Avoid: Exposure to moisture, incompatible materials.

Incompatible Materials: Contact with water, acids, flammable liquids and organic

halogen compounds, especially trichloroethylene, may cause fire or explosion. Contact with nitromethane and other similar nitro compounds cause formation of shock sensitive salts. Contact with metals such as aluminum, tin and zinc cause

formation of flammable hydrogen gas.

Hazardous Decomposition

Products:

Hazardous combustion can lead to the release of irritating

gases and vapors.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Skin Contact: Causes serious skin damage

Eye Contact: Causes serious eye damage

Inhalation: Harmful if inhaled



SAFETY DATA SHEET

Ingestion: Harmful if swallowed

Symptoms Related to the Physical Chemical and

No information available

Toxicological Characteristics:

Delayed and Immediate Effects and also Chronic Effects from Short and Long-term Exposure

Skin Damage/Irritation:Causes severe skin burnsEye Damage/Irritation:Causes serious eye damage

Sensitization:

Mutagenic Effects:

Carcinogenicity:

Reproductive Toxicity:

STOT - Single Exposure:

STOT - Repeated Exposure:

Aspiration Hazard:

Not classified

Not classified

Not classified

Acute Toxicity

Component Information

Component CAS-No LD50 Oral LD50 Dermal LC50 Inhalation

Potassium Hydroxide 1310-58-3 273 mg/kg - -

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Should not be released to environment

Component Freshwater Fish Freshwater Algae Water Flea

Potassium Hydroxide

1310-58-3

LC50: 80 mg/L/96 h

(Gambusia affinis)

Persistence and Degradability:

No information available

Bioaccumulative Potential:No information availableMobility in Soil:No information availableOther Adverse Effects:No information available



SAFETY DATA SHEET

Section 13: DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Processing, use, or contamination of this product may occur

during product use. Accordingly, it is the responsibility of the user to determine the proper disposal methodologies. Consult the appropriate state, regional or local regulations to ensure complete and accurate classification. Dispose of contaminated

packaging in accordance with local regulations.

Section 14: TRANSPORT INFORMATION

DOT: Regulated

UN-No: 1813

Proper Shipping Name: Potassium Hydroxide, Solid

Hazard Class: 8 **Packing Group:**

IATA: Regulated

UN-No: 1813

Proper Shipping Name: Potassium Hydroxide, Solid

Hazard Class: Packing Group: Ш

IMDG: Regulated

UN-No: 1813

Proper Shipping Name: Potassium Hydroxide, Solid

Hazard Class: 8 **Packing Group:** Ш

Section 15: REGULATORY INFORMATION

International Inventories

TCSA: Listed DSL: Listed

US Federal Regulations

TSCA Section 12(b) Export

Not regulated

Notification SARA 313

Section 313 of Title III of the Superfund Amendments and **Reauthorization Act of 1986**

Not applicable

(SARA):



SAFETY DATA SHEET

SARA 311/312 Hazard Categorization:

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: No
Pressure: No

CERCLA/SARA 302 & 304

Section 302 & 304 of Title III

Not applicable

No

of the Superfund Amendments and

Reauthorization Act of 1986

(SARA):

Reactivity:

CWA (Clean Water Act): Not applicable

California Proposition 65: This product does not contain any proposition 65 chemicals.

Section 16: OTHER INFORMATION

NFPA Ratings: Health: 3 Flammability: 0 Reactivity: 1

Disclaimer:

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

Prepared by: Bri-Chem Supply Ltd.

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