

INHIBOX MAX

SECTION 1. IDENTIFICATION

Product Identifier INHIBOX MAX
Product Family Oxygen Scavenger
Recommended Use Drilling Fluid Additive.
Supplier Identifier Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
Emergency Phone No. ChemTrec, (800) 424-9300, 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Flammable liquid - Category 3; Acute toxicity (Oral) - Category 3; Acute toxicity (Dermal) - Category 3; Acute toxicity (Inhalation) - Category 3; Aquatic hazard (Acute) - Category 2; Aquatic hazard (Chronic) - Category 2

Label Elements



Signal Word:

Danger

Hazard Statement(s):

Flammable liquid and vapour.

Toxic if swallowed, in contact with skin or if inhaled.

Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating, and lighting equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash hands thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Wear protective gloves/protective clothing.

Response:

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTRE or doctor if you feel unwell.

Collect spillage.

Storage:

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

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
Ethanamine	HMIRA Reg# 9856 2016-03-03	30-60		
Amine	HMIRA Reg# 9856 2016-03-03	10-40		
Methanol	67-56-1	10-30		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Seek medical attention. Symptoms may be delayed.

Skin Contact

Wash with soap and water. Remove contaminated clothing and footwear immediately. Launder contaminated clothing before re-use. 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. Remove contact lenses, if worn, after initial flushing and continue flushing for at least 15 minutes. If eye irritation persists, get medical advice or attention.

Ingestion

Never give anything by mouth to an unconscious or convulsing victim. DO NOT INDUCE VOMITING. Rinse mouth with and/or drink water if conscious. Get medical attention if symptoms develop or persist.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Alcohol-resistant foam, water spray, carbon dioxide (CO₂), dry chemical.

Specific Hazards Arising from the Product

Flammable liquid and vapours. Eliminate all ignition sources if safe to do so. Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind. Pay attention to flashback. Fire or intense heat may cause violent rupture of packages.

Nitrogen oxides (NO_x), ammonia, carbon monoxide.

Special Protective Equipment and Precautions for Fire-fighters

Firefighters should wear full fire fighting turn out gear (full Bunk Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent).

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. Avoid contact with skin, eyes and clothing. In case of inadequate ventilation wear respiratory protection. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Take precautionary measures against static discharges. Pay attention to flashback. Suppress (knock down) gases/vapours/mists with a water spray jet.

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Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Use appropriate personal protective equipment. Use only non-sparking tools.

Large spills should be collected mechanically (remove by pumping) for disposal. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Keep in suitable, closed containers for disposal. Dispose of as special waste in compliance with local and national regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe vapours or spray mist. Take necessary action to avoid static electricity discharge (which may cause ignition of organic vapours). Ground and bond containers when transferring material. Do not use sodium nitrate or other nitrosating agents in product. Empty containers retain product residue and may be hazardous. Wash thoroughly after handling.

Ensure that eyewash stations and safety showers are close to the workstation location.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. Protect containers from physical damage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Local exhaust. Use explosion-proof equipment.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles. Ensure that eyewash stations and safety showers are close to the workstation location.

Skin Protection

Solvent-resistant apron and boots. Wash contaminated clothing before re-use. Choose body protection according to the amount and concentration of dangerous substance at the work place.

Impervious gloves. Solvent-resistant gloves. Request information on glove permeation properties from the glove supplier.

Respiratory Protection

Use only in area provided with appropriate exhaust ventilation. Avoid breathing dust/fume/mist/vapours/spray. In case of insufficient ventilation, wear suitable equipment. A respirator with filter for organic vapour. In case of higher concentration wear a positive-pressure supplied-air respirator with full facepiece. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Brown.
Odour	Slight (Amine)
Odour Threshold	Not available
Melting Point/Freezing Point	Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	11 °C (closed cup)
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Relative Density (water = 1)	0.95

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Solubility	Soluble in water
Auto-ignition Temperature	Not available
Viscosity	Not available (kinematic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible Materials

Strong acids and oxidizing agents, peroxides.

Do not use sodium nitrite or other nitrosating agents in product.

Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

Hazardous Decomposition Products

Nitrogen oxides (NO_x), carbon monoxide, carbon dioxide (CO₂), ammonia.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

Acute Toxicity

Methanol

LC50 Inhalation Rat: 85 mg/l 4 h

LC50 Inhalation Rat: 64000 ppm

Methanol

LD50 Oral Rat: >5000 mg/kg (1187-2769 mg/kg bodyweight)

Methanol

LD50 Dermal Rabbit: 15800 mg/kg

Skin Corrosion/Irritation

Toxic in contact with skin.

Serious Eye Damage/Irritation

Redness of the eye tissue. Lacrimation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Toxic if inhaled.

Ingestion

Toxic if swallowed. Causes damage to organs (liver, kidneys, central nervous system, optic nerve).

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Red skin, dry skin, skin rash/inflammation, headache, disturbed tactile sensibility, visual disturbances, sleeplessness, gastrointestinal complaints, cardiac and blood circulation effects.

Carcinogenicity

Not classified.

No information was located for: Aspiration Hazard, Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Effects on or via Lactation, Germ Cell Mutagenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Methanol
Toxicity to fish
LC50 *Lepomis macrochirus*: 15400 mg/l 96 h (lethal)
LC50 *Oncorhynchus mykiss*: 10800 mg/l 96 h
Toxicity to aquatic invertebrates
EC50 *Daphnia magna*: > 10000 mg/l 48 h (lethal)
EC50 *Daphnia magna*: 24500 mg/l 48 h
Other aquatic organisms
Threshold limit *Pseudomonas putida*: 6600 mg/l 16 h
Threshold limit *Microcystis aeruginosa*: 530 mg/l 192 h
Threshold limit *Scenedesmus quadricauda*: 8000 mg/l 168 h

Persistence and Degradability

Methanol
Readily biodegradable in water. Biodegradable in soil.
Biochemical oxygen demand (BOD): 0.6-1.12 g O₂/g substance
Chemical oxygen demand (COD): 1.42 g O₂/g substance
ThOD: 1.5 g O₂/g substance
BOD (% of ThOD): 0.8% ThOD

Bioaccumulative Potential

Methanol
BCF fish *Leuciscus idus*: < 10
Log Pow: -0.77 (experimental value)
Low potential for bioaccumulation (BCF < 500)

Mobility in Soil

Methanol
Surface tension: 0.023 N/M (20°C)

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1230	FLAMMABLE LIQUID, METHANOL	3 (6.1)	II
US DOT	1230	FLAMMABLE LIQUID, METHANOL	3 (6.1)	II

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

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Class B3



Class D2B

B3 - Combustible Liquid; 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.

SECTION 16. OTHER INFORMATION

NFPA Rating **Health - 2** **Flammability - 2** **Instability - 0**

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

Date of Preparation December 29, 2020

Disclaimer This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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