

ARLOX HS705

SECTION 1. IDENTIFICATION

Product Identifier ARLOX HS705
Product Family Hydrogen Sulfide 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; Specific target organ toxicity (repeated exposure) - Category 2

Label Elements



Signal Word:

Warning

Hazard Statement(s):

Flammable liquid and vapour.

May cause damage to organs through prolonged or repeated exposure.

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.

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

Wear protective gloves/eye protection/face protection.

Response:

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

Get medical advice or attention if you feel unwell.

In case of fire: Use to extinguish.

Storage:

Store in a well-ventilated place. Keep cool.

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
s-Triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	30-60	

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Methanol	67-56-1	10-30	
Ethanolamine	141-43-5	1-5	

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration and seek medical attention.

Skin Contact

Remove and launder contaminated clothing and footwear. Wash contaminated skin with soap and water until no evidence of material remains. If skin irritation occurs, get medical advice or attention.

Eye Contact

Immediately flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If eye irritation persists, get medical advice or attention.

Ingestion

DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Seek medical attention if symptoms appear.

Immediate Medical Attention and Special Treatment

Medical Conditions Aggravated by Exposure

Exposure to this product may aggravate medical conditions involving the following: nervous system, gastro-intestinal tract, respiratory tract, skin/epithelium, eyes.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use foam, dry chemicals or carbon dioxide extinguishers.

Specific Hazards Arising from the Product

Conditions of Flammability: Open flames, sparks, static, heat. Flash Point: 40°C (SFCC)

Flammable vapours may form an ignitable mixture with air. Vapours may travel considerable distances and flash back if ignited. Static charges can cause ignition or explosion when container is not bonded.

Hazardous Combustion Products: Oxides of carbon (CO, CO₂) and nitrogen (NO, NO₂).

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area and fight fire from a safe distance. Use water spray from a safe distance to cool fire-exposed containers.

Firefighters should wear a full-body encapsulating chemical protective suit with positive-pressure self-contained breathing apparatus (SCBA).

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

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. Remove personnel and keep upwind of spill. Shut off all ignition sources, no flares, smoking or flames in hazard area. Approach release from upwind. Shut off leak if it can be done safely. Contain spilled material. Keep out of waterways.

Small spill: add absorbent material, scoop up and place in a sealed, liquid-proof container.

Large spill: dike and use non-sparking or explosion-proof means to transfer material to an appropriate container for disposal.

Other Information

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Flammable vapours may form an ignitable mixture with air. Vapours may travel a considerable distance from the spill and flash back if ignited.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Wear appropriate personal protective equipment and avoid contact with skin, eyes and clothing. Avoid inhalation of the vapours/spray. Use only with adequate ventilation. To avoid fire or explosion, ground container equipment and personnel before handling product.

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from incompatible materials. Keep away from heat, sparks and flame. Keep containers tightly closed and dry.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(Methanol)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 200 ppm

ACGIH® = American Conference of Governmental Industrial Hygienists. STEL = Short-term Exposure Limit. 250 ppm (skin)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average. 200 ppm

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. STEL = Short-term Exposure Limit. 250 ppm (skin)

(Ethanolamine)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 6 ppm

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. TWA = Time-Weighted Average. 6 ppm.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below the respective threshold limit value. Ensure that eyewash stations and safety showers are near the workstation location.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Wear long-sleeved shirt, chemically-resistant gloves, chemically-resistant boots and/or overshoes to prevent repeated or prolonged skin contact.

Respiratory Protection

Respirator use is not expected to be necessary under normal conditions of use. In poorly ventilated areas, emergency situations or if high exposure levels are exceeded, use a NIOSH-approved full-face respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Amber liquid. Particle Size: Not available
Odour	Aromatic
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not applicable (melting); Not available (freezing)
Initial Boiling Point/Range	Not available
Flash Point	40 °C (closed cup)
Evaporation Rate	Not available

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Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	> 1
Relative Density (water = 1)	1.054 - 1.066
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic)
Other Information	
Physical State	Liquid
Molecular Formula	Not available
Molecular Weight	Not available
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization is not expected to occur.

Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Oxidizing materials.

Hazardous Decomposition Products

Not applicable.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; skin absorption; eye contact; ingestion.

Acute Toxicity

(Methanol)

LC50 Inhalation Rat: 64,000 ppm/4hr

(s-Triazine-1,3,5(2H,4H,6H)-triethanol)

LD50 Acute Oral Rat: 763 mg/kg

(Methanol)

LD50 Acute Oral Rat: 5628 mg/kg

LD50 Acute Oral Mouse: 7300 mg/kg

(Ethanloamine)

LD50 Acute Oral Rat: 1720 mg/kg

LD50 Oral Rat: 2100 mg/kg

LD50 Acute Oral Mouse: 700 mg/kg

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(Methanol)

LD50 Acute Dermal Rabbit: 15,800 mg/kg

(Ethanloamine)

LD50 Acute Dermal Rabbit: 100 mg/kg

LD50 Dermal Rabbit: 1018 mg/kg

Skin Corrosion/Irritation

May be irritating to the skin. May be toxic if absorbed through the skin.

Serious Eye Damage/Irritation

Particles may cause mechanical irritation.

May cause eye irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause central nervous system effects if inhaled. May be irritating to the lungs.

Skin Absorption

May be toxic if absorbed through the skin.

Ingestion

Not considered a likely route of exposure, however, may be harmful or cause irritation if ingested.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

Repeated or prolonged contact may cause dermatitis (inflammation) and defatting of the skin (dryness).

Ethanolamine is a component of this product. Chronic occupational exposure reportedly was associated with chronic bronchitis, liver damage, weakness and fatigue. Occupational asthma has been reported with chronic exposure. Rats chronically exposed to ethanloamine had degenerative changes in the liver, heart and lungs. Rats exposed orally to 640 mg/kg or more had lacerations in kidney and liver weights; deaths occurred at a dose of 1280 mg/kg/day.

Methanol is a component of this product. Because methanol is eliminated from the body more slowly than ethanol, it can have cumulative toxicity with repeated exposures.

Reproductive Toxicity

Development of Offspring

Ethanolamine was teratogenic and fetotoxic in rats when given by gavage at doses up to 500 mg/kg/day on days 6-15 of gestation. Dose-related maternal toxicity was present in the form of skin irritation or lesions and changes in maternal body weight.

Embryotoxicity and fetotoxicity were seen with maternal exposure to airborne concentrations of 7500 ppm and above and reduced fetal weight with concentrations of 10,000 ppm or greater. The "no observed adverse effect level" (NOAEL) was 1000 ppm. Effects similar to those seen in the 10,000 ppm dosage group were also seen in offspring of mice given a dosage of 4 g/kg orally.

Sexual Function and Fertility

Methanol has caused birth defects in rats exposed to the oral and inhalation routes. Exencephaly (a defect in the skull bone structure that leaves the brain exposed) and cleft palate were increased in feral mice exposed to methanol at an airborne concentration of 5000 ppm or higher for 7 hrs/day on days 6-15 of gestation.

Germ Cell Mutagenicity

Methanol was mutagenic in yeast. It has caused chromosome aberrations in yeast and grasshoppers.

Other Information

Ethanolamine caused chromosome damage in plant seeds. Substances which are strongly alkaline can sometimes produce false-positive results in short-term genetic assays.

No information was located for: Respiratory and/or Skin Sensitization, Carcinogenicity, Interactive Effects

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity or environmental fate data available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations.

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SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1993	FLAMMABLE LIQUID, N.O.S (contains methanol)	3	III

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification



Class B3



Class D1B



Class D2A; D2B

B3 - Combustible Liquid; D1B - Toxic; D2A - Very Toxic (Chronic toxicity); D2B - Toxic (Skin irritant; Eye irritant)

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

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

Date of Preparation November 11, 2015

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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