

ARLOX HSW 705

SECTION 1. IDENTIFICATION

Product Identifier	ARLOX HSW 705
Product Family	Hydrogen Sulfide Scavenger
Recommended Use	Additif fluide de forage.
Supplier Identifier	Bri-Chem Supply Ltd., 27075 Acheson Road, Acheson AB T7X 6B1, 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 4; Acute toxicity (Inhalation) - Category 3; Skin irritation - Category 2; Serious eye damage - Category 1; Skin sensitization - Category 1; Specific target organ toxicity (single exposure) - Category 1; Specific target organ toxicity (repeated exposure) - Category 1; Health Hazard Not Otherwise Classified (HHNOC) - Category 1

Label Elements



Signal Word:

Warning

Hazard Statement(s):

Flammable liquid and vapour.

Toxic if inhaled.

Harmful if swallowed.

Causes serious eye damage.

Causes skin irritation.

Prolonged or repeated contact may dry skin and cause irritation.

May cause an allergic skin reaction.

Causes damage to to organs (optic nerve).

Causes damage to organs through prolonged or repeated exposure (respiratory tract).

Precautionary Statement(s):

Prevention:

Wear protective gloves: >8 hours (breakthrough time): Nitrile or Neoprene gloves, PVC gloves.

Wear eye protection/face protection.

Wear protective clothing.

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

Use only outdoors or in a well-ventilated area.

Do not breathe vapours.

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

Wash hands and skin thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

Response:

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If exposed or concerned: Call a POISON CENTRE or doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTRE or doctor.
IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
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
Alkanolamine/aldehyde condensate	4719-04-4	40-50		
Monoethanolamine	141-43-5	1-5		
Methanol	67-56-1	10-20		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

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

Skin Contact

Remove and launder contaminated clothing and footwear. Wash contaminated skin with soap and water for at least 15 minutes or 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

Dry chemical, carbon dioxide, foam, water fog.

Unsuitable Extinguishing Media

DO NOT use water jet.

Specific Hazards Arising from the Product

Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may

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accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

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 must 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 safety 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 (soil may be used in the absence of other suitable materials), 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

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 personal protective equipment to avoid contact with this chemical. Avoid inhalation of the vapours/spray. Avoid inhalation of the vapours/spray. Only use where there is 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 TLV Absorbed through skin

STEL: 328 mg/m³, 0 times per shift, 15 minutes

STEL: 250 ppm, 0 times per shift, 15 minutes

TWA: 262 mg/m³, 0 times per shift, 8 hours

TWA: 200 ppm, 0 times per shift, 8 hours

Monoethanolamine

STEL: 15 mg/m³, 0 times per shift, 15 minutes

STEL: 6 PPM, 0 times per shift, 15 minutes

TWA: 7.5 mg/m³, 0 times per shift, 8 hours

TWA: 3 ppm, 0 times per shift, 8 hours.

ACGIH® = American Conference of Governmental Industrial Hygienists.

TLV® = Threshold Limit Value.

STEL = Short-term Exposure Limit.

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TWA = Time-Weighted Average.

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	9 - 11
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
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)	1.07
Solubility	Soluble in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	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
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available
Other Physical Property 1	Pour Point: -40°C

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

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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.

Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.

Incompatible Materials

Oxidizing materials. Reducing materials. Acids.

Methanol is incompatible and may react with acetyl bromide, alkyl aluminum solutions, beryllium hydride, boron trichloride, nitric acid, cyanuric chloride, dichloromethane, diethylzinc, metals (granulated forms of aluminum and magnesium - including aluminum and zinc salts), phosphorus III oxide, and potassium tert-butoxide.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products will not be produced.

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

(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

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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 ferotoxic 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 ferotoxicity 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.

SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1992	FLAMMABLE LIQUID, TOXIC, N.O.S. (Methanol)	3 (6.1)	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



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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

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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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