

**SECTION 1. IDENTIFICATION**

**Product Identifier** Jet Scav  
**Product Family** Amines  
**Recommended Use** Oxygen Scavenger  
**Supplier Identifier** Blackstone Drilling Fluids Ltd., 1600, 510 - 5th Street S.W., Calgary, Alberta, T2P 3S2, 403-262-5955  
**Emergency Phone No.** CANUTEC, 613-996-6666 or \*666 on a cellular phone (Canada Only), 24 Hours / Day

**SECTION 2. HAZARD IDENTIFICATION**

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

**Classification**

Flammable liquid - Category 3; Acute toxicity (Dermal) - Category 4; Acute toxicity (Inhalation) - Category 4; Skin irritation - Category 2; Eye irritation - Category 2A; Germ cell mutagenicity - Category 1B; Reproductive toxicity Category 1B

**Label Elements**



Signal Word:

Danger

Hazard Statement(s):

H226 Flammable liquid and vapour.  
H312 Harmful in contact with skin.  
H302 + H332 Harmful if swallowed or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H340 May cause genetic defects.  
H360 May damage fertility or the unborn child.

Prevention:

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical, ventilating, and lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTRE or doctor if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use carbon dioxide, dry chemical powder, appropriate foam, water spray or fog to extinguish.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal:

P501 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
DIETHYLHYDROXYLAMINE	3710-84-7	60-100	

#### Notes

Concentrations are expressed in % weight/weight.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. Seek medical attention if irritation develops or persists.

#### Skin Contact

Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Seek medical attention if irritation develops or persists.

#### Eye Contact

Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention. **Ingestion**

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor. **Most Important Symptoms and Effects, Acute and Delayed**

If inhaled: Can irritate the nose and throat. If swallowed:

### SECTION 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media**

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog. **Unsuitable Extinguishing Media**

None known.

**Specific Hazards Arising from the Product**

Combustible liquid. Can ignite if heated. Releases vapour that can form explosive mixture with air at or above the flash point. May travel a considerable distance to a source of ignition and flash back to a leak or open container. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire hazard.

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

Evacuate area. Fight fire from a safe distance or a protected location. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

**Environmental Precautions**

Prevent material from entering public sewer system or any waterways if the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

**Methods and Materials for Containment and Cleaning Up**

Stop or reduce leak if safe to do so.

### SECTION 7. HANDLING AND STORAGE

**Precautions for Safe Handling**

Only use where there is adequate ventilation. Wear personal protective equipment to avoid direct contact with this chemical. Prevent uncontrolled release of product.

**Conditions for Safe Storage**

Electrically bond and ground containers. Ground clips must contact bare metal. Keep away from heat, sparks and flames. Store in tightly closed containers. Store in an area that is: well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity).

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control Parameters**

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
DIETHYLHYDROXYLAMINE	2 ppm	Not established	Not established	Not established	Not established	Not established

**Appropriate Engineering Controls**

General ventilation is usually adequate. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

**Individual Protection Measures Eye/Face Protection**

Wear chemical safety goggles and face shield when contact is possible.

**Skin Protection**

Wear chemical protective clothing e.g. gloves, aprons, boots. Chemically resistant gloves should be used.

**Respiratory Protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****Basic Physical and Chemical Properties**

<b>Appearance</b>	Clear colourless liquid.
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not available
<b>pH</b>	6 - 9
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	125 - 130 °C (257 - 266 °F)
<b>Flash Point</b>	45 °C (113 °F)
<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	4 kPa (32 mm Hg) at 25 °C
<b>Vapour Density (air = 1)</b>	3.1
<b>Relative Density (water = 1)</b>	0.902 at 20 °C
<b>Solubility</b>	Soluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	120 - 130 °C (248 - 266 °F)
<b>Viscosity</b>	Not available (kinematic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid

**SECTION 10. STABILITY AND REACTIVITY**

**Chemical Stability** Normally stable.

**Conditions to Avoid**

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

**Incompatible Materials**

Strong oxidizing agents (e.g. perchloric acid), activated carbon, sulfonyl chlorides.

**Hazardous Decomposition Products**

BEGINS TO DECOMPOSE SLOWLY AT 120-130 C, WHICH COULD LIBERATE DIETHYLAMINE.

### SECTION 11. TOXICOLOGICAL INFORMATION

**Likely Routes of Exposure**

Eye contact; skin contact; ingestion.

**Acute Toxicity**

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
DIETHYLHYDROXYLAMINE	3140 ppm (rat) (4-hour exposure)	2190 mg/kg (rat)	Not available

**Skin Corrosion/Irritation**

Animal tests show moderate or severe irritation. Symptoms include pain, redness, and swelling. **Serious Eye**

**Damage/Irritation**

Animal tests show serious eye irritation. Symptoms include sore, red eyes, and tearing.

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

May be harmful if inhaled.

**Ingestion**

May be harmful if swallowed. Ingestion is not a typical route of occupational exposure.

**Respiratory and/or Skin Sensitization**

Not a respiratory sensitizer. Not a skin sensitizer.

**Carcinogenicity**

Chemical Name	IARC	ACGIH®	NTP	OSHA
DIETHYLHYDROXYLAMINE	Not Listed	Not designated	Not Listed	Not Listed

**Reproductive Toxicity**

**Development of Offspring** No information was located.

**Sexual Function and Fertility**

Animal studies show effects on sexual function and/or fertility. Has been associated with: reduced female fertility.

**Germ Cell Mutagenicity**

Causes mutagenicity in in vitro tests. Causes mutagenicity in fruit flies. Causes mutagenicity in non-reproductive (somatic) cells in tests using live animals.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

No information was located.

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

Studies are not available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

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

**SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations.

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

Not applicable

**Other Information**

TDG Class 3, Flammable Liquids: General Exemption applies. Product may be shipped as NOT REGULATED FOR TRANSPORTATION if in small means of containment. Product is only required to be shipped as regulated when shipped in bulk.  
Un No: UN 1993  
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. (DIETHYLHYDROXYLAMINE)  
Transport Hazard Class: 3  
Packing Group: III

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations Canada Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All intentional components of this product are either on the DSL, the confidential DSL or notifications / import restrictions are in place.

**USA****Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are listed on the TSCA Inventory.

**SECTION 16. OTHER INFORMATION**

**SDS Prepared By** Product Safety Committee

**Phone No.** 403-262-5955

**Date of Preparation** Dec 18, 2018

**Disclaimer** To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.