

SAFETY DATA SHEET

SCAVEX

Page 1 of 6 Date prepared: 24 March 2016 MSDS : SCAVEX SDS GHS

1. IDENTIFICATION

Product Identifier
Product Name
Chemical Name

SCAVEX Triazine-type hydrogen sulfide scavenger

Recommended use of the chemical and restrictions on use

Aqueous hydrogen sulfide control applications For industrial use only Recommended use Restrictions on use

Supplier details

West Penetone Inc. 11411-160 Street Edmonton, AB, T5M3T7 Tel: 780-454-3919

Emergency Telephone Number

Canutec (613)-996-6666 or 1-888-226-8832 - FOR 24 HOUR TRANSPORT EMERGENCY WITHIN CANADA Chemtrec 1-800-424-9300 - FOR 24 HOUR TRANSPORT EMERGENCY WITHIN USA

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids	Category 4
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Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 4
Acute toxicity, inhalation - mist Category 3	
Skin corrosion/irritation	Category 1C
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1B
Specific target organ toxicity – single exposure	Category 1
Specific target organ toxicity – repeated exposure	Category 1
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Hazardous to the aquatic environment, acute hazard	Category 3

Label Elements

DANGER

Hazard Statements Combustible liquid Harmful if swallowed Harmful in contact with skin Toxic if inhaled Causes severe skin burns and eye damage	
May cause an allergic skin reaction Causes damage to organs [liver, nervous system] May cause damage to organs through prolonged or repeated exposure [central nervous sys	tem (CNS), kidneys, skin]
Harmful to aquatic life	

Precautionary Statements - Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray.

Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

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 CENTER or doctor/physician.

If exposed or concerned: call a POISON CENTER or doctor/physician.

Get medical advice/attention if you feel unwell.

Precautionary Statements - Storage

Store in a well ventilated place. Keep container tightly closed. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant according to local, provincial/federal regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	30-60
2-dimethylaminoethanol	108-01-0	7-13
ethylene glycol	107-21-1	7-13
morpholine	110-91-8	3-7
2-aminoethanol	141-43-5	1-5

4. FIRST AID MEASURES

Ingestion	Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
Skin contact	Wash with plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation or rash occurs, get medical advice/attention. Take off immediately all contaminated clothing and wash it before re-use.
Inhalation	If difficulties occur after mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

Most important symptoms and effects, both acute and delayed

Product is corrosive to eyes and skin and may cause burns. Product may be harmful in contact with skin and cause sensitization with prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Product is toxic by inhalation and may irritate respiratory system. Serious effects may be delayed following exposure. Harmful if swallowed. May cause burns to mouth, throat and stomach. Product contains materials which cause damage to the nervous system (CNS), liver, kidneys, gastrointestinal tract, upper respiratory tract, skin, eyes, lens or cornea, testes.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed including oxides of carbon and nitrogen.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapor or mist. Use personal protective equipment.

Environmental Precautions

Avoid discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

Contain and solidify with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water. For large spills, stop flow of material, dike, and pump off product where this is without risk and possible. Proceed as above.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Avoid contact and inhalation of mist/vapors/spray. Avoid contact with skin, eyes and clothing. Ensure thorough ventilation of work areas. Smoking, eating and drinking should be prohibited in the application area. Use recommended personal protective equipment.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed away from direct sunlight in a dry, cool and well-ventilated place, away from incompatible materials.

Incompatible Materials

Acids, oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ethylene glycol 107-21-1	100 mg/m ³ Ceiling	50 ppm/125 mg/m ³ Ceiling	Not listed
morpholine 110-91-8	TWA: 20 ppm	20 ppm/70 mg/m ³	Not listed
2-aminoethanol 141-43-5	TWA : 3 ppm/7.5 mg/m ³ STEL : 6 ppm/15 mg/m ³	3 ppm/6 mg/m ³	Not listed

Appropriate engineering controls

 Engineering Controls
 Ensure adequate ventilation, especially in confined areas. Eyewash facilities and emergency shower must be made available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face Protection	Safety glasses with side shields or goggles or face shield with high risk of splashing.	
Skin and body protection	Wear protective gloves and protective clothing.	
Respiratory Protection	Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.	
General Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.	

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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear, colorless to light amber liquid ODOR : Amine **ODOR THRESHOLD :** Not applicable pH: 10.2-11.2 **MELTING POINT / FREEZING POINT :** ≤ -40°C (≤ -40°F) **BOILING POINT/BOILING RANGE :** Not available FLASH POINT : 63.5°C / 146°F (TCC), 113°C / 235°F (COC) EVAPORATION RATE, water = 1 : FLAMMABILITY (SOLID, GAS) : Not applicable

VAPOR PRESSURE, mm Hg AT 20°C (68°F) : Not available VAPOR DENSITY (Air = 1) : Not available RELATIVE DENSITY AT 20°C (68°F) : 1.030-1.040 **SOLUBILITY IN WATER :** Complete **PARTITION COEFFICIENT, N-OCTANOL/WATER :** Not available **AUTO-IGNITION TEMPERATURE :** Not available **DECOMPOSITION TEMPERATURE :** Not available VISCOSITY : Not available FLAMMABLE LIMITS : UPPER: Not available LOWER: Not available

10. STABILITY AND REACTIVITY

Reactivity

Not reactive.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to Avoid

Avoid extreme temperatures. Store away from incompatible materials.

Incompatible Materials

Strong oxidizing materials, acids.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decompositions can lead to release of irritating gases and vapors such as formaldehyde, oxides of carbon and nitrogen as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

ATE_{mix} – LD50 oral – approx. ≥945 mg/kg (rat), LD50 dermal – approx. ≥1837 mg/kg (rat), LC50 inhalation-mist – approx. >0.50 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4	>488- <u><</u> 584 mg/L (rat)	>2000 mg/kg (rat)	0.371 mg/L (rat) – 4 hr
2-dimethylaminoethanol 108-01-0	1183 mg/L (rat)	1219 mg/kg (rabbit)	6.1 mg/L (rat) – 4 hr
ethylene glycol 107-21-1	4000 mg/L (rat)	9530 uL/kg (rabbit)	Not listed
morpholine 110-91-8	1910 mg/kg (rat)	500 mg/kg (rabbit)	Not listed
2-aminoethanol 141-43-5	1720 mg/kg (rat)	1000 mg/kg (rabbit)	Not listed

Information on likely sources of exposure

Ingestion Skin corrosion/irritation Inhalation Serious eye damage/irritation May be harmful if swallowed. May cause stomach pains. Causes skin irritation, redness and possible blistering or sensitization. May cause coughing, respiratory irritation and possible damage. Causes serious eye damage. May cause pain, watering and redness.

Delayed and immediate effects and a	also chronic effects from short and long-term exposure	
Respiratory or skin sensitization	1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) - 1B May	/

1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) - 1B May cause an allergic skin reaction
No information available.
Morpholine (CAS 110-91-8) - under certain conditions, forms nitrosamines, an animal study carcinogen
No information available
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to liver, central nervous system
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to skin, CNS, kidneys
None.

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. Eye damage. Ingestion may cause irritation or burns of mouth, esophagus and stomach, abdominal pain, nausea, vomiting, diarrhea and affect the liver, kidneys, and central nervous system. Inhalation may cause irritation of nose, mouth, and upper respiratory tract, coughing, difficulty breathing.

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical Name	Fish	Waterflea	Algae
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol	119 mg/L: 96 h rainbow trout	26.1 mg/L: 48 h Daphnia magna	Not available
4719-04-4	LC50	EC50	
2-dimethylaminoethanol	146.6 mg/L: 96 h Leuciscus idus	98.4 mg/L: 48 h Daphnia magna	66.1 mg/L: 72 h scenedesmus
108-01-0	LC50	EC50	subspicatus EC50
ethylene glycol 107-21-1	41000 mg/L: rainbow trout LC50	Not available	1300-6500 mg/L: selenastrum capricornutum EC50
morpholine	180 mg/L: 96 h salmo gairdneri,	45 mg/L: 48 h Daphnia magna	28 mg/L: 96 h EC50
110-91-8	syn. O. mykiss LC50	EC50	
2-aminoethanol 141-43-5	150 mg/L: 96 h rainbow trout LC50	Not available	Not available

Persistence and degradability

Expected to be readily biodegradable.

Bioaccumulative potential

Accumulation in organisms is not to be expected.

Mobility in soil

No information available

Other adverse effects

Do not release untreated into natural waters. No other adverse environmental effects are expected.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Dispose of in accordance with local regulations.

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

LINE NEUrophian	2027
UN Number:	2927
UN Proper Shipping Name:	Toxic Liquid, Corrosive, Organic, N.O.S. (1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol, morphline, 2-
	dimethylaminoethanol solution)
Transport Hazard Class(es)	
Class:	TDG: 6.1 (8)
oldos.	US DOT: 6.1 (8)
	IMDG: 6.1 (8)
Label(s):	6.1 (8)
Packing Group:	
Marine Pollutant:	No
Special propositions for upor	None established
Special precautions for user:	None established
Transport in bulk according to Anr	nex II of MARPOL73/78 and the IBC Code:

Not determined

15. REGULATORY INFORMATION

Canada (DSL/NDSL)

All ingredients contained in this product are in compliance with the Canadian Environmental Protection Act and are listed on the DSL or are exempt.

United States (TSCA)

All ingredients contained in this product are listed on the TSCA inventory or are exempt.

HMIS Information:

Health: Flammability: Reactivity: 1

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16. OTHER INFORMATION

Preparation Date Revision Date Revision Note 24 March 2016 21 January 2020 Revision 3 - Modifications to Section 14

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS