

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** SCAVEX

**Recommended use of the chemical and restrictions on use**

**Recommended use** Water-soluble hydrogen sulfide scavenger  
**Restrictions on use** For industrial use only

**Supplier details**

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

**Emergency Telephone Number**

Canutec (613)-996-6666

## 2. HAZARDS IDENTIFICATION

**Classification**

Flammable liquids	Category 4
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
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 system (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/vapours/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 must not be allowed out of the workplace.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
In case of inadequate ventilation, wear respiratory protection.

#### **Precautionary Statements - Response**

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 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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**

**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

**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.

**Ingestion** Rinse mouth. 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.

#### **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.

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

#### **Appropriate engineering controls**

##### **Engineering Controls**

Ensure adequate ventilation, especially in confined areas. Eye wash 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.

<b>Skin and body protection</b>	Wear protective gloves and protective clothing.
<b>Respiratory Protection</b>	Wear respiratory protection if ventilation is inadequate. Respiratory protection in case of vapor/aerosol release.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>APPEARANCE :</b> Clear, colorless to light amber liquid	<b>VAPOR PRESSURE, mm Hg AT 20°C :</b> Not available
<b>ODOR</b> Amine	<b>VAPOR DENSITY (Air = 1) :</b> Not available
<b>ODOR THRESHOLD :</b> Not applicable	<b>RELATIVE DENSITY AT 20°C:</b> 1.030-1.040
<b>pH :</b> 10.2-11.2	<b>SOLUBILITY IN WATER :</b> Complete
<b>MELTING POINT / FREEZING POINT :</b> ≤ -40°C	<b>PARTITION COEFFICIENT, N-OCTANOL/WATER :</b> Not available
<b>BOILING POINT/BOILING RANGE :</b> Not available	<b>AUTO-IGNITION TEMPERATURE :</b> Not available
<b>FLASH POINT :</b> 63.5°C (TCC), 113°C (COC)	<b>DECOMPOSITION TEMPERATURE:</b> Not available
<b>EVAPORATION RATE, water = 1 :</b> 1	<b>VISCOSITY:</b> Not available
<b>FLAMMABILITY (SOLID, GAS):</b> Not applicable	<b>FLAMMABLE LIMITS :</b> <b>UPPER:</b> Not available <b>LOWER :</b> 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<sub>mix</sub>** – 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-≤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**

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

**Delayed and immediate effects and also chronic effects from short and long-term exposure**

<b>Respiratory or skin sensitization</b>	1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) - 1B May cause an allergic skin reaction
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	Morpholine (CAS 110-91-8) - under certain conditions, forms nitrosamines, an animal study carcinogen
<b>Reproductive toxicity</b>	No information available
<b>STOT - single exposure</b>	1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to liver, central nervous system
<b>STOT - repeated exposure</b>	1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to skin, CNS, kidneys
<b>Aspiration Hazard</b>	None.

**Symptoms related to the physical, chemical and toxicological characteristics**

See Section 2 &amp; 4.

**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 4719-04-4	119 mg/L: 96 h rainbow trout LC50	26.1 mg/L: 48 h Daphnia magna EC50	Not available
2-dimethylaminoethanol 108-01-0	146.6 mg/L: 96 h Leuciscus idus LC50	98.4 mg/L: 48 h Daphnia magna EC50	66.1 mg/L: 72 h scenedesmus subspicatus EC50
ethylene glycol 107-21-1	≤41000 mg/L: rainbow trout LC50	Not available	1300-6500 mg/L: selenastrum capricornutum EC50
morpholine 110-91-8	180 mg/L: 96 h salmo gairdneri, syn. O. mykiss LC50	45 mg/L: 48 h Daphnia magna EC50	28 mg/L: 96 h 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****TDG classification**

UN 2810, Toxic Liquid, Organic, N.O.S. (1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol solution), Inhalation Hazard, Class 6.1, PG II

**15. REGULATORY INFORMATION**

All ingredients are listed on the DSL

**16. OTHER INFORMATION****Preparation Date**

24 March, 2016

**Revision Date**

24 November, 2017

**Revision Note**

Adjustments to Section 2, 9, 11, & 12 – update in raw material information & physical properties

**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**