

1. IDENTIFICATION

Product Identifier

Product Name SCAVEX VP
Chemical Name Triazine-type hydrogen sulfide scavenger

Recommended use of the chemical and restrictions on use

Recommended use Aqueous hydrogen sulfide control applications
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 1-(613)-996-6666 Internationally or 1-888-226-8832 – North America FOR 24 HOUR TRANSPORT EMERGENCY

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids	Category 3
Acute toxicity, oral	Category 4
Acute toxicity, dermal	Category 3
Acute toxicity, inhalation	Category 4
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 – single exposure	Category 3
Specific target organ toxicity – repeated exposure	Category 2
Hazardous to the aquatic environment, acute hazard	Category 2

Label Elements

DANGER

Hazard Statements

Flammable liquid and vapor
Harmful if swallowed or inhaled
Toxic in contact with skin
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Causes damage to organs
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure
Toxic to aquatic life



Precautionary Statements - Prevention

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

Keep container tightly closed.
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. 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 occurs: get medical advice/attention. Wash contaminated clothing before reuse. Call a POISON CENTER or doctor/physician if you feel unwell.
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 locked up. Store in a well ventilated place. Keep container tightly closed. Keep cool.

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 %
methanol	67-56-1	10-30
1,3,5-triazine, hexahydro-1,3,5-trimethyl-	108-74-7	10-30
morpholine	110-91-8	7-13

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

Contact with eyes causes serious irritation leading to stinging, tearing, redness, swelling, and blurred vision with marked excess redness and swelling of the conjunctiva. Permanent eye damage including blindness could result from prolonged exposure. Contact with skin may cause irritation or burns leading to local redness or blistering and may cause sensitization with prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Inhalation may cause damage to central nervous system and also lead to respiratory irritation or lung damage after repeated exposure. Over exposure may cause nausea, diarrhea, coughing, headache. Ingestion may affect the liver and kidneys as indicated in animal studies.

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

High-volume water jet.

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. Remove all sources of ignition. Avoid contact with skin, eyes and clothing. Use personal protective equipment. High risk of slipping due to product leakage/spillage.

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 the 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
methanol 67-56-1	TWA: 200 ppm STEL: 250 ppm	TWA: 200 ppm/260 mg/m ³ STEL: 250 ppm/325 mg/m ³	TWA: 200 ppm/260 mg/m ³ STEL: 250 ppm/325 mg/m ³
morpholine 110-91-8	TWA: 20 ppm	20 ppm/70 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. Face shield where handling may produce splashing hazards

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE :

Clear, colorless liquid

ODOR :

Amine

ODOR THRESHOLD :

Not applicable

pH :

10.0-11.0

MELTING POINT / FREEZING POINT :

≤ -40°C (≤ -40°F)

BOILING POINT/BOILING RANGE :

Not available

FLASH POINT :

32°C / 90°F (TCC), 34°C / 93°F (COC)

EVAPORATION RATE, water = 1 :

>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) :

0.970-0.980

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 all sources of ignition: open flame. Store away from incompatible materials.

Incompatible Materials

Strong oxidizing materials, acids, amphoteric or light metals.

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 oxides of carbon and nitrogen as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity**ATE_{mix}** – LD50 oral – approx. ≥408 mg/kg (rat), LD50 dermal – approx. ≥923 mg/kg (rabbit), LC50 inhalation-vapours – approx. ≥18 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
methanol 67-56-1	100 mg/kg (rat)	300 mg/kg (rabbit)	5 mg/L (rat)
1,3,4-triazine, hexahydro-1,3,5-trimethyl- 108-74-7	500 mg/kg (rat)	Not listed	Not listed
morpholine 110-91-8	1910 mg/kg (rat)	500 mg/kg (rabbit)	Not listed

Information on likely sources of exposure**Ingestion**

May be harmful if swallowed

Skin corrosion/irritation

May cause skin irritation or burns and possible sensitization.

Inhalation

May cause respiratory irritation and possible damage

Serious eye damage/irritation

May cause serious eye damage.

Delayed and immediate effects and also chronic effects from short and long-term exposure**Respiratory or skin sensitization**

1,3,5-triazine, hexahydro-1,3,5-trimethyl- (CAS 108-74-7) - 1B May cause an allergic skin reaction

Germ cell mutagenicity

No information available.

Carcinogenicity

Morpholine (CAS 110-91-8) - under certain conditions, forms nitrosamines, an animal study carcinogen

Reproductive toxicity

1,3,5-triazine, hexahydro-1,3,5-trimethyl- (CAS 108-74-7) – OECD 422 oral rat NOAEL >100 mg/L, 28 d

STOT - single exposure
STOT - repeated exposure
Aspiration Hazard

Methanol (CAS67-56-1) - 1 Causes damage to eyes, central nervous system
 1,3,5-triazine, hexahydro-1,3,5-trimethyl- (CAS 108-74-7) – respiratory tract irritant
 None.

Symptoms related to the physical, chemical and toxicological characteristics

Skin and eye burns. Ingestion may cause irritation or burns of mouth, esophagus and stomach, abdominal pain, nausea, vomiting, diarrhea and affect the eyes, liver, and kidneys. Inhalation may cause irritation of nose, mouth, and upper respiratory tract, coughing, difficulty breathing, as well as headaches dizziness or nausea at high concentrations.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Chemical Name	Fish	Waterflea	Algae
methanol 67-56-1	15400 mg/L: 96 h Lepomis macrochirus LC50	>10000 mg/L: 48 h Daphnia magna EC50	22000 mg/L: 96 h Scenedesmus capricornutum EC50
1,3,4-triazine, hexahydro-1,3,5-trimethyl- 108-74-7	>1.908 mg/L: 96 h LC50	20.352 mg/L: 48 h LC50 Crustaceans	1.145 mg/L: 72 h 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

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

UN Number: 1992
 UN Proper Shipping Name: Flammable Liquid, Toxic, N.O.S. (methanol solution)
 Transport Hazard Class(es):
 Class: TDG: 3 (6.1)
 US DOT: 3 (6.1)
 IMDG: 3 (6.1)
 Label(s): 3 (6.1)
 Packing Group: III
 Marine Pollutant: No
 Special precautions for user: None established
 Transport in bulk according to Annex 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: 1
 Flammability: 3
 Reactivity: 0

16. OTHER INFORMATION**Preparation Date**

23 March 2016

Revision Date

19 April 2018

Revision Note

Revision 2 - Modifications to Section 1, 2, 7, 11, 14, 15

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