SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name SCAVEX VP

Recommended use of the chemical and restrictions on use
Recommended use High-temperature, 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 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 must 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 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 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 SWALLOWED: Rinse mouth. 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

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

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.

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. 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. 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 :
≤ -40ºC
BOILING POINT/BOILING RANGE :
Not available
FLASH POINT :
32ºC (TCC), 34ºC (COC)
EVAPORATION RATE, water = 1 :
>1
FLAMMABILITY (SOLID, GAS):
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC :
Not available
VAPOR DENSITY (Air = 1) :
Not available
RELATIVE DENSITY AT 20ºC:
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

Inhalation May cause respiratory irritation and possible damage
Serious eye damage/irritation May causes serious eye damage.
Skin corrosion/irritation May causes skin irritation or burns and possible sensitization.
Ingestion May be harmful if swallowed

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

Symptoms related to the physical, chemical and toxicological characteristics
See Section 2 & 4.

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

TDG classification

Flammable Liquid, Toxic, N.O.S. (methanol solution), Class 3 (6.1), UN 1992, PG III

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION

Preparation Date 23 March, 2016
Revision Date February 5, 2018
Revision Note Update in hazards and composition information in Sections 2, 3, 8, 11

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