SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name PENETONE 8507H
Chemical Name Triazine/aldehyde-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

Main office – (780)-454-3919, 8:00 AM to 4:30 PM MST

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids	Category 3

Acute toxicity, oral	Category 3
Acute toxicity, dermal	Category 3
Acute toxicity, inhalation - vapors	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Skin sensitizer	Category 1B
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1
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
Toxic if swallowed, in contact with skin or if inhaled
Causes skin and serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
May cause cancer
Causes damage to organs [liver, nervous system]
May cause respiratory irritation
May cause damage to organs through prolonged or repeated exposure [central nervous system (CNS), kidneys, nervous system, skin]
Toxic to aquatic life

Precautionary Statements - Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof electrical/lighting/ventilation equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Avoid breathing 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 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.
If eye irritation persists: Get medical advice/attention.
IF exposed or concerned: Get medical advice/attention.

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	15-40
1,3,5-triazine, hexahydro-1,3,5-trimethyl-	108-74-7	10-30
formaldehyde	50-00-0	7-13

* The actual concentrations have been withheld as a trade secret

4. FIRST AID MEASURES

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

Skin contact 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.

Inhalation 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. If eye irritation persists, get medical advice/attention.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious irritation leading to discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva. Contact with skin may cause irritation with local redness. Exposure may aggravate previous medical skin conditions. Exposure may cause an allergic skin reaction with prolonged or repeated exposure. Inhalation of mist/vapors/spray may cause destruction of the mucous membranes and upper respiratory tract leading to a burning sensation of the nose and throat, coughing, and difficulty breathing. Serious effects may be delayed following exposure. Ingestion may be fatal and cause blindness. Exposure may cause irritation or a burning sensation of the mouth and throat and abdominal pain. Product contains materials that cause damage to the nervous system (CNS), liver, kidneys, gastrointestinal tract, upper respiratory tract, skin, eyes, lens or cornea, testes. See Section 2 for possible delayed effects.

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, prevent product from entering drains, 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 protection 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
formaldehyde 50-00-0	0.3 ppm/0.37mg/m^3 Ceiling	TWA: 0.75 ppm STEL: 2 ppm	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.

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 :
9.0-10.0
MELTING POINT / FREEZING POINT :
≤ -40ºC (≤ -40ºF)
BOILING POINT/BOILING RANGE :
Not available
FLASH POINT :
32ºC / 90ºF (TCC)
EVAPORATION RATE, water = 1 :
>1
FLAMMABILITY (SOLID, GAS) :
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC (68ºF) :
Not available
VAPOR DENSITY (Air = 1) :
Not available
RELATIVE DENSITY AT 20ºC (68ºF) :
0.970
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
Acids, oxidizing agents

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. 249 mg/kg (rat), LD50 dermal – approx. 630 mg/kg (rabbit), LC50 inhalation-vapors – approx. 2.931 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
formaldehyde 50-00-0	500 mg/kg (rat)	Not listed	0.579 ppm (rat) – 4 hr

Information on likely sources of exposure

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

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 Formaldehyde (CAS 50-00-0) 1B May cause an allergic skin reaction
Germ cell mutagenicity	Formaldehdye (CAS 50-00-0) 2 Suspected of causing genetic defects
Carcinogenicity	Formaldehyde (CAS 50-00-0) 1 Carcinogenic to humans
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

Skin and eye irritation. 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
formaldehyde 50-00-0	62-109 mg/L: 96 h rainbow trout LC50	14.7 mg/L: 24 h Daphnia magna EC50	10-100 mg/L: 96 h

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:	2
Flammability:	3
Reactivity:	0

16. OTHER INFORMATION

Preparation Date	9 June 2017
Revision Date	9 July 2025
Revision Note	**Revision 2 -** Modifications to Section 1

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