

1. IDENTIFICATION

Product Identifier

Product Name PENETONE 8500H

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 3
Acute toxicity, oral	Category 4
Acute toxicity, inhalation - vapors	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Germ cell mutagenicity	Category 2
Carcinogenicity	Category 1
Specific target organ toxicity – single exposure	Category 1
Hazardous to the aquatic environment, acute hazard	Category 3

Label Elements

DANGER

Hazard Statements

Flammable liquid and vapor
 Harmful if swallowed
 Fatal if inhaled
 Causes severe skin burns and eye damage
 May cause an allergic skin reaction
 Suspected of causing genetic defects
 May cause cancer
 Causes damage to organs
 Harmful 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/open flames/hot surfaces.
 Keep container tightly closed.

Avoid breathing 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.
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: Get medical advice/attention.

Precautionary Statements - Storage

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

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-1,3,5-(2H,4H,6H)-triethanol	4719-04-4	10-30
formaldehyde	50-00-0	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 Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse.

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

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause serious damage leading to irritation, discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva. Exposure may cause corneal injury. Contact with skin may cause burns or irritation with local redness or blistering. 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 which 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

None.

Specific hazards arising from the chemical

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

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. Do not breathe vapor or mist. Wear appropriate respirator when ventilation is inadequate. Put on personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas.

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. Use personal protective equipment. 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
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. 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 and/or faceshield.

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 to dark red liquid	VAPOR PRESSURE, mm Hg AT 20°C : Not available
ODOR Amine	VAPOR DENSITY (Air = 1) : Not available
ODOR THRESHOLD : Not applicable	RELATIVE DENSITY AT 20°C: 0.900-1.000
pH : 9.0-10.0	SOLUBILITY IN WATER : Complete
MELTING POINT / FREEZING POINT : ≤ -40°C	PARTITION COEFFICIENT, N-OCTANOL/WATER : Not available
BOILING POINT/BOILING RANGE : Not available	AUTO-IGNITION TEMPERATURE : Not available
FLASH POINT : <37.8°C	DECOMPOSITION TEMPERATURE: Not available
EVAPORATION RATE, water = 1 : <1	VISCOSITY: Not available
FLAMMABILITY (SOLID, GAS): Not applicable	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 decomposition 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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
methanol 67-56-1	>2000 mg/kg (rat)	>10000 mg/kg (rabbit)	>100 mg/L (rat)
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
formaldehyde 50-00-0	500 mg/kg (rat)	Not listed	0.579 ppm (rat) – 4 hr

Information on likely sources of exposure

Inhalation

May cause coughing, respiratory irritation and possible damage.

Serious eye damage/irritation

Causes serious eye damage. May cause pain, watering and redness.

Skin corrosion/irritation Causes skin irritation, redness and possible blistering or sensitization.
Ingestion May be harmful if swallowed. May cause stomach pains.

Delayed and immediate effects and 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 cause an allergic skin reaction
Formaldehyde (CAS 50-00-0) 1 May cause an allergic skin reaction
Germ cell mutagenicity Formaldehyde (CAS 50-00-0) 2 Suspected of causing genetic defects
Carcinogenicity Formaldehyde (CAS 50-00-0) 1 Carcinogenic to humans
Reproductive toxicity No information available
STOT - single exposure 1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to liver, central nervous system
Formaldehyde (CAS 50-00-0) 1 Causes damage to eyes, CNS
STOT - repeated exposure 1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to skin, CNS, kidneys
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
1,3,5-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
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

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

8 April, 2016

Revision Date

not applicable

Revision Note

not applicable

Disclaimer

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End of SDS