

SAFETY DATA SHEET

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1. IDENTIFICATION

Product Identifier

Product Name PENETONE 8500H

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

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 3	
Acute toxicity, dermal	Category 3	
Acute toxicity, inhalation - mists	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 3	

Label Elements

DANGER

Hazard Statements

Flammable liquid and vapor

Toxic if swallowed, in contact with skin, or 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] Harmful to aquatic life







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<u>Precautionary Statements - Prevention</u>

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 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 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 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

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/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.

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 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 irritation 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.

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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 recommended 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	TWA: 200 ppm	TWA: 200 ppm/260 mg/m ³	TWA: 200 ppm/260 mg/m ³
67-56-1	STEL: 250 ppm	STEL: 250 ppm/325 mg/m ³	STEL: 250 ppm/325 mg/m ³
formaldehyde 50-00-0	0.3 ppm/0.37mg/m³ 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 and/or faceshield.

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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.

Handle in accordance with good industrial hygiene and safety practice. Routinely wash work clothing **General Hygiene Considerations**

and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: VAPOR PRESSURE, mm Hg AT 20°C (68°F):

Clear, colorless to dark red liquid Not available

VAPOR DENSITY (Air = 1): ODOR:

Amine Not available

ODOR THRESHOLD: RELATIVE DENSITY AT 20°C (68°F): Not applicable 0.988-1.008

pH: **SOLUBILITY IN WATER:**

8.50-9.00 Complete **MELTING POINT / FREEZING POINT: PARTITION COEFFICIENT, N-OCTANOL/WATER:**

≤ -40°C (≤ -40°F) Not available

BOILING POINT/BOILING RANGE: AUTO-IGNITION TEMPERATURE: Not available Not available

DECOMPOSITION TEMPERATURE: FLASH POINT:

<37.8°C (<100°F) TCC Not available **EVAPORATION RATE, water = 1: VISCOSITY:** Not available

FLAMMABILITY (SOLID, GAS): **FLAMMABLE LIMITS:**

Not applicable 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

ATE_{mix} – LD50 oral – approx. ≥244 mg/kg (rat), LD50 dermal – approx. ≥565 mg/kg (rat), LC50 inhalation-mist – approx. >0.679 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)
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4	>488- <u><</u> 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

Ingestion May be harmful if swallowed. May cause stomach pains. Skin corrosion/irritation Causes skin irritation, redness and possible sensitization. Inhalation May cause coughing, respiratory irritation and possible damage. **PENETONE 8500H** Page 5 of 6

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

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

1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) - 1B May cause an allergic skin reaction Respiratory or skin sensitization

Formaldehyde (CAS 50-00-0) 1 May cause an allergic skin reaction

Formaldehdye (CAS 50-00-0) Germ cell mutagenicity 2 Suspected of causing genetic defects 1 Carcinogenic to humans

Carcinogenicity Formaldehyde (CAS 50-00-0) Reproductive toxicity No information available

1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to liver, central nervous system STOT - single exposure

1 Causes damage to eyes, CNS

Formaldehyde (CAS 50-00-0) 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

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	15400 mg/L: 96 h Lepomis	>10000 mg/L: 48 h Daphnia	22000 mg/L: 96 h Scenedesmus capricornutum EC50
67-56-1	macrochirus LC50	magna 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	62-109 mg/L: 96 h rainbow trout	14.7 mg/L: 24 h Daphnia magna	10-100 mg/L: 96 h
50-00-0	LC50	EC50	

Persistence and degradability

Bioaccumulative potential

Expected to be readily biodegradable.

Accumulation in organisms is not to be expected.

Mobility in soil

Other adverse effects

No information available 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:

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) Ш Packing Group: Marine Pollutant: Nο

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.

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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 DateJanuary 18, 2017Revision Date16 October 2020

Revision Note Revision 4 - Modifications to Section 9

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