

# SAFETY DATA SHEET

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# 1. IDENTIFICATION

**Product Identifier** 

Product Name PENETONE 8502H

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

<u>Supplier details</u> 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 4
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Acute toxicity, oral	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

# Hazardous to the aquatic environment, acute hazard Category 3

### **Label Elements**

# DANGER

# **Hazard Statements**

Combustible liquid

Toxic if swallowed 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

May cause respiratory irritation

Harmful to aquatic life



### **Precautionary Statements - Prevention**

Obtain special instructions before use.

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Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/other sources of ignition. No smoking.

Avoid breathing dust/fume/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.

In case of inadequate ventilation, wear respiratory protection.

### Precautionary Statements - Response

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

IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 %*
ethylene glycol	107-21-1	10-30
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol	4719-04-4	10-30
formaldehyde	50-00-0	7-13

<sup>\*</sup> The actual concentrations have been withheld as a trade secret

# 4. FIRST AID MEASURES

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

Skin contact Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off

contaminated clothing and wash it before reuse.

Inhalation Remove person to fresh air and keep comfortable for breathing. 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 contact. 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 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.

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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, strong 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
ethylene glycol 107-21-1	100 mg/m <sup>3</sup> Ceiling	50 ppm/125 mg/m³ Ceiling	Not listed
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.

**Skin and body protection**Wear protective gloves and protective clothing.

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

Clear, colorless to dark red liquid

Not available

NAPOR DENSITY (Air

ODOR: VAPOR DENSITY (Air = 1): Amine/aldehyde Not available

ODOR THRESHOLD : RELATIVE DENSITY AT 20°C (68°F) :

Not applicable 1

pH: SOLUBILITY IN WATER: 9.0-10.0 Complete

MELTING POINT / FREEZING POINT : PARTITION COEFFICIENT, N-OCTANOL/WATER :

 $\leq$  -40°C ( $\leq$  -40°F) Not available

BOILING POINT/BOILING RANGE : AUTO-IGNITION TEMPERATURE :

Not available Not available

FLASH POINT:

>60°C (>140°F)

DECOMPOSITION TEMPERATURE:

Not available

EVAPÒRATION RATE, water = 1:

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**

Acids, strong oxidizing agents.

# **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<sub>mix</sub> - LD50 oral - approx. ≥867 mg/kg (rat), LD50 dermal - approx. >3700 mg/kg (rat), LC50 inhalation-mist - approx. ≥0.708 mg/L - 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
ethylene glycol 107-21-1	4000 mg/L (rat)	9530 uL/kg (rabbit)	Not listed
1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol 4719-04-4	>488- <u>&lt;</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

IngestionMay be harmful if swallowed. May cause stomach pains.Skin corrosion/irritationCauses skin irritation, redness and possible sensitization.InhalationMay cause coughing, respiratory irritation and possible damage.

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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

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 Formaldehdye (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 1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol (CAS 4719-04-4) 1 Causes damage to skin, CNS, kidneys

STOT - repeated exposure 1,3,5-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. 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
ethylene glycol	≤41000 mg/L: rainbow trout LC50		1300-6500 mg/L: selenastrum 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

**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

<u>Waste Disposal Method</u> Dispose of in accordance with local regulations.

<u>Contaminated Packaging</u> Empty containers should be taken for local recycling, recovery or waste disposal.

### 14. TRANSPORT INFORMATION

UN Number: 2810

UN Proper Shipping Name: Toxic Liquid, Organic, N.O.S. (1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol solution), Inhalation Hazard

Transport Hazard Class(es)

Class: TDG: 6.1 US DOT: 6.1 IMDG: 6.1

Label(s): 6.1
Packing Group: II
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

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# 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: 2 Reactivity: 0

# **16. OTHER INFORMATION**

Preparation Date12 May, 2016Revision Date10 July 2025

Revision Note Revision 4 - 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**