## 1. IDENTIFICATION

**Product Identifier**
- **Product Name**: PENETONE 7052M
- **Chemical Name**: Bacterial control agent

**Recommended use of the chemical and restrictions on use**
- **Recommended use**: Bacterial 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 (613)-996-6666 or 1-888-226-8832 – FOR 24 HOUR TRANSPORT EMERGENCY WITHIN CANADA
- Chemtrec 1-800-424-9300 – FOR 24 HOUR TRANSPORT EMERGENCY WITHIN USA

## 2. HAZARDS IDENTIFICATION

**Classification**
- **Flammable liquids**: Category 3
- **Acute toxicity, oral**: Category 3
- **Acute toxicity, dermal**: Category 3
- **Acute toxicity, inhalation - mist**: Category 4
- **Skin corrosion/irritation**: Category 2
- **Serious eye damage/eye irritation**: Category 1
- **Reproductive toxicity**: 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 1
- **Hazardous to the aquatic environment, acute hazard**: Category 1

**Label Elements**

**DANGER**

**Hazard Statements**
- Flammable liquid and vapor
- Toxic if swallowed or in contact with skin
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye damage
- May damage fertility or the unborn child
- 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>
- Very 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.

**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. Immediately call a POISON CENTER or doctor/physician.

**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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>67-56-1</td>
<td>15-40</td>
</tr>
<tr>
<td>bis[tetrakis(hydroxymethyl)phosphonium] sulfate</td>
<td>55566-30-8</td>
<td>15-40</td>
</tr>
<tr>
<td>4-nonylphenol branched, ethoxylated</td>
<td>127087-87-0</td>
<td>3-7</td>
</tr>
</tbody>
</table>

### 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 damage leading to discomfort or pain, excess blinking and tear production with marked excess redness and swelling of the conjunctiva as well as corneal damage. Contact with skin may cause irritation with local redness. Exposure may aggravate previous medical skin conditions. 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.
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 oxides of carbon, phosphorous, and sulfur, 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol</td>
<td>TWA: 200 ppm</td>
<td>TWA: 200 ppm/260 mg/m³</td>
<td>TWA: 200 ppm/260 mg/m³</td>
</tr>
<tr>
<td></td>
<td>STEL: 250 ppm</td>
<td>STEL: 250 ppm/325 mg/m³</td>
<td>STEL: 250 ppm/325 mg/m³</td>
</tr>
<tr>
<td>Bis[tetrakis(hydroxymethyl)phosphonium] sulfate 55566-30-8</td>
<td>TWA: 2 mg/m³</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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 face-shield.
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, yellow liquid

ODOR:
Characteristic

ODOR THRESHOLD:
Not applicable

pH:
6.0-7.0

MELTING POINT / FREEZING POINT:
< -40°C (< -40°F)

BOILING POINT/BOILING RANGE:
Not available

FLASH POINT:
<37.8°C (<100°F) TCC

EVAPORATION RATE, water = 1:
<1

FLAMMABILITY (SOLID, GAS):
Not applicable

VAPOR PRESSURE, mm Hg AT 20°C (68°F):
Not available

VAPOR DENSITY (Air = 1):
Not available

RELATIVE DENSITY AT 20°C (68°F):
0.950-1.050

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 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 oxides of carbon, phosphorous, and sulfur as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
ATE_{mix} – LD50 oral – approx. >260 mg/kg (rat), LD50 dermal – approx. >800 mg/kg (rat), LC50 inhalation-mist – approx. >1 mg/L – 4 h (rat)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol 67-56-1</td>
<td>100 mg/kg (rat)</td>
<td>300 mg/kg (rabbit)</td>
<td>5 mg/L (rat)</td>
</tr>
<tr>
<td>Bis[tetrakis(hydroxymethyl)phosphonium] sulfate 55566-30-8</td>
<td>248-575 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rat)</td>
<td>5.55 mg/L – 4 h, vapor (rat)</td>
</tr>
<tr>
<td>4-nonylphenol branched, ethoxylated 127087-87-0</td>
<td>&gt;500 mg/kg (rat)</td>
<td>&gt;1000 mg/kg (rabbit)</td>
<td>1.15 mg/L – 4 h, mist (rat)</td>
</tr>
</tbody>
</table>

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

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

- Respiratory or skin sensitization (CAS 55566-30-8) has caused allergic skin reactions when tested in guinea pigs.
- Germ cell mutagenicity has no information available.
- Reproductive toxicity (CAS 55566-30-8) has caused birth defects in laboratory animals.
- STOT - single exposure methanol (CAS 67-56-1) causes damage to eyes, central nervous system.
- STOT - repeated exposure methanol (CAS 67-56-1) causes damage to eyes, central nervous system.
- Aspiration Hazard has no information available.

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Fish</th>
<th>Waterflea</th>
<th>Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol 67-56-1</td>
<td>15400 mg/L: 96 h Lepomis macrochirus LC50</td>
<td>&gt;10000 mg/L: 48 h Daphnia magna EC50</td>
<td>22000 mg/L: 96 h Scenedesmus capricornutum EC50</td>
</tr>
<tr>
<td>Bis[tetrakis(hydroxymethyl)phosphoniym] sulfate 55566-30-8</td>
<td>94-119 mg/L: 96 h oncorhynchus mykiss LC50</td>
<td>15-19.4 mg/L: 48 h daphnia magna EC50</td>
<td>0.20 mg/L: 96 h green algae EC50</td>
</tr>
<tr>
<td>4-nonylphenol branched, ethoxylated 127087-87-0</td>
<td>3.8-6.2 mg/L: 96 h pimephales promelas LC50</td>
<td>9.3-21.4 mg/L: 48 h EC50</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Persistence and degradability
Expected to be potentially 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: 2929
UN Proper Shipping Name: Toxic Liquid, Flammable, Organic, N.O.S. (methanol solution)
Transport Hazard Class(es)
Class:
TDG: 6.1 (3)
US DOT: 6.1 (3)
IMDG: 6.1 (3)
Label(s): 6.1 (3)
Packing Group: II
Marine Pollutant: Yes
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: 3
- Flammability: 3
- Reactivity: 0

### 16. OTHER INFORMATION

**Preparation Date**: 7 May 2020  
**Revision Date**: Not applicable  
**Revision Note**: Not applicable

**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