1. IDENTIFICATION

Product Identifier
Product Name: PENETONE 7050M
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

<table>
<thead>
<tr>
<th>Flammable liquids</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity, oral</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute toxicity, dermal</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin corrosion/irritiation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Sensitization – respiratory</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Sensitization - skin</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity – single exposure</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific target organ toxicity – repeated exposure</td>
<td>Category 2</td>
</tr>
</tbody>
</table>

Label Elements

DANGER

Hazard Statements
Flammable liquid and vapor
Toxic if swallowed or in contact with skin
Causes skin irritation
Causes serious eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
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>
Precautionary Statements - Prevention
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.
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. 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

<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>glutaraldehyde</td>
<td>111-30-8</td>
<td>5-10</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>67-63-0</td>
<td>5-10</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 or corneal damage. 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 including respiratory sensitization. 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. 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 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 67-56-1</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>glutaraldehyde 111-30-8</td>
<td>TWA: 0.05 ppm</td>
<td>0.2 ppm/0.8 mg/m³</td>
<td>not listed</td>
</tr>
<tr>
<td>propan-2-ol 67-63-0</td>
<td>TWA: 200 ppm</td>
<td>TWA: 400 ppm/980 mg/m³</td>
<td>not listed</td>
</tr>
<tr>
<td></td>
<td>STEL: 400 ppm</td>
<td>STEL: 500 ppm/1225 mg/m³</td>
<td></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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, yellow liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>6.0-7.0</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>&lt; -40°C (&lt; -40°F)</td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>&lt;37.8°C (&lt;100°F) TCC</td>
</tr>
<tr>
<td>Evaporation rate, water = 1</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor pressure, mm Hg at 20°C (68°F)</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density (Air = 1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Relative density at 20°C (68°F)</td>
<td>0.900-1.000</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Complete</td>
</tr>
<tr>
<td>Partition coefficient, N-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable limits</td>
<td>Upper: Not available</td>
</tr>
</tbody>
</table>

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 and other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Acute toxicity
ATE\textsubscript{mix} – LD50 oral – approx. >280 mg/kg (rat), LD50 dermal – approx. >930 mg/kg (rat)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral (mg/kg)</th>
<th>LD50 Dermal (mg/kg)</th>
<th>LC50 Inhalation (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>methanol 67-56-1</td>
<td>100 (rat)</td>
<td>300 (rabbit)</td>
<td>5 (rat)</td>
</tr>
<tr>
<td>glutaraldehyde</td>
<td>77 (mg/kg)</td>
<td>&gt;1000 (mg/kg)</td>
<td>0.28-0.39 (mg/L)</td>
</tr>
<tr>
<td>propan-2-ol</td>
<td>5000 (mg/kg)</td>
<td>12800 (mg/kg)</td>
<td>45248 ppm (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 or sensitization, and possible damage.
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
Glutaraldehyde (CAS 111-30-8) Respiratory and skin sensitizer

Germ cell mutagenicity
No information available.

Carcinogenicity
No listed carcinogens.

Reproductive toxicity
No information available

STOT - single exposure
Methanol (CAS 67-56-1) 1 Causes damage to eyes, central nervous system
Glutaraldehyde (CAS 111-30-8) 3 May cause respiratory irritation

STOT - repeated exposure
Methanol (CAS 67-56-1) 1 Causes damage to eyes, central nervous system

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, allergy response, 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>glutaraldehyde 111-30-8</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>propan-2-ol 67-63-0</td>
<td>4200 mg/L: 96 h Rasbora heteromorpha LC50</td>
<td>1400-1950 mg/L: 48 h Crangon crangon EC50</td>
<td>Not available</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Preparation Date</th>
<th>7 May 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revision Date</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Revision Note</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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