1. IDENTIFICATION

Product Identifier
Product Name PENETONE 7302M
Chemical Name Friction reducer

Recommended use of the chemical and restrictions on use
Recommended use Flow assurance and pipeline pigging applications
Restrictions on use No information available

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>Classification</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable liquids</td>
<td>Category 3</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</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>
<tr>
<td>Aspiration hazard</td>
<td>Category 1</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, acute hazard</td>
<td>Category 2</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, long-term hazard</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Label Elements

DANGER

Hazard Statements
Flammable liquid and vapor
 Causes skin irritation
 Causes serious eye damage
 May cause respiratory irritation, drowsiness, or dizziness
 May causes damage to organs <liver, bone, skin> through prolonged or repeated exposure
 May be fatal if swallowed and enters airways
 Toxic to aquatic life
 Harmful to aquatic life with long lasting effects

Precautionary Statements - Prevention
Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
Keep container tightly closed.
Ground and bond container and receiving equipment.
Use explosion proof equipment.
Use non-sparking tools
Take action to prevent static discharges.
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash face, hands, and any exposed skin thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response  
IF ON SKIN (or hair): Take off immediately all contaminated clothing.  Rinse skin with water or shower.  If skin irritation occurs: Get medical advice/attention.  Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTER or doctor/physician if you feel unwell.  
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 if you feel unwell.  
In case of fire: Use carbon dioxide, foam, or dry chemical to extinguish.

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes</td>
<td>1330-20-7</td>
<td>60-100</td>
</tr>
<tr>
<td>alcohols, C9-C11, ethoxylated</td>
<td>68439-46-3</td>
<td>10-30</td>
</tr>
<tr>
<td>distillates (petroleum straight run middle)</td>
<td>64741-44-2</td>
<td>1-5</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
Wash with plenty of water.  If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before reuse.

Inhalation
If difficulties occur after fume/gas/mist/vapors/spray has been inhaled, remove person to fresh air and keep comfortable for breathing.  Call a POISON CENTER or doctor/physician if you feel unwell.

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 eye damage leading to irritation, discomfort or pain, excess blinking and tear production with marked redness and swelling of the conjunctiva, blurred vision, and possible corneal injury. Contact with skin may cause irritation with local redness. Inhalation of fume/gas/mist/vapors/spray may cause respiratory tract irritation. Inhalation of vapors may cause drowsiness or dizziness, headaches, fatigue, muscular weakness and in extreme cases, loss of consciousness. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause pneumonitis if aspirated. Material contains ingredients that may cause damage to the nervous system (CNS), liver, bone, or skin through prolonged or repeated exposure.

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
High-volume water jet.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed including oxides of carbon and nitrogen.
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

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 contaminated 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 inhalation of fume/gas/mist/vapors/spray. Avoid contact with skin, eyes, and clothing. Ensure thorough ventilation of work areas. Use personal protective equipment. Use explosion-proof equipment. Keep away from sources of ignition. Smoking 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
Strong acids, strong oxidizing or reducing 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>xylene</td>
<td>TWA: 100 ppm/434 mg/m³</td>
<td>TWA: 100 ppm/435 mg/m³</td>
<td>Not available</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>STEL: 150 ppm/651 mg/m³</td>
<td>STEL: 150 ppm/655 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls
Engineering Controls
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection
Safety glasses with side shields or goggles. Use a face-shield where mode of handling increases risk of splashing.

Skin and body protection
Wear protective gloves and protective clothing.

Respiratory Protection
Wear respiratory protection if ventilation is inadequate. Use 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, brown liquid

**ODOR**
Solvent/aromatic

**ODOR THRESHOLD:**
Not available

**pH:**
Not applicable

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

**BOILING POINT/BOILING RANGE:**
Approx. 138°C (280°F)

**FLASH POINT:**
<37.8°C (<100°F) (TCC)

**EVAPORATION RATE, water = 1:**
>1

**FLAMMABILITY (SOLID, GAS):**
Not applicable

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

**VAPOUR DENSITY (Air = 1):**
>3

**RELATIVE DENSITY AT 20°C (68°F):**
0.800-0.900

**SOLUBILITY IN WATER:**
Forms emulsion

**PARTITION COEFFICIENT, N-OCTANOL/WATER:**
Not available

**AUTO-IGNITION TEMPERATURE:**
432-530°C (810-986°F)

**DECOMPOSITION TEMPERATURE:**
Not available

**FLAMMABLE LIMITS:**
UPPER: 7% v/v  LOWER: 1% v/v

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 acids, strong oxidizing or reducing 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 oxides of carbon and nitrogen as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
ATE_subcutaneous – LD50 oral – approx. >3250 mg/kg (rat), LD50 dermal – approx. >2000 mg/kg (rabbit), LC50 inhalation-vapor – approx. >20 mg/L (rat) – 4 h

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes 1330-20-7</td>
<td>3500-4300 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>20 mg/L (rat) – 4 h</td>
</tr>
<tr>
<td>alcohols, C9-C11, ethoxylated 68439-46-3</td>
<td>&gt;2000 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>Not listed</td>
</tr>
<tr>
<td>Distillates (petroleum straight run middle) 64741-44-2</td>
<td>Not available</td>
<td>Not available</td>
<td>32.35 mg/L (rat) 4 h</td>
</tr>
</tbody>
</table>

**Information on likely sources of exposure**

**Ingestion**
May be harmful if swallowed. May cause stomach pains and other effects.

**Skin corrosion/irritation**
Causes skin irritation possible dermatitis with prolonged exposure.

**Inhalation**
May cause respiratory irritation, drowsiness, or dizziness.

**Serious eye damage/irritation**
Causes eye damage. May cause pain, watering, redness, and blurred vision.

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

**Respiratory or skin sensitization**
Not a sensitizer.

**Germ cell mutagenicity**
None known.

**Carcinogenicity**
xylenes (CAS 1330-20-7) 2 Suspected of causing cancer (inhalation)
Reproductive toxicity
xylenes (CAS 1330-20-7) 2 Suspected of damaging fertility or the unborn child

STOT - single exposure
xylenes (CAS 1330-20-7) 3 May cause drowsiness or dizziness; narcotic effects
xylenes (CAS 1330-20-7) 3 May cause respiratory irritation
xylenes (CAS 1330-20-7) 1 Causes damage to organs (lungs) (inhalation, oral)

STOT - repeated exposure
xylenes (CAS 1330-20-7) 1 Causes damage to organs (nervous system) through prolonged or repeated exposure (inhalation)
xylenes (CAS 1330-20-7) 2 May causes damage to organs (skin) through prolonged or repeated exposure

Aspiration Hazard
xylenes (CAS 1330-20-7) 1 May be fatal if swallowed and enters airways

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Fish</th>
<th>Waterflea</th>
<th>Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes 1330-20-7</td>
<td>1-10 mg/L: 96 h LC50</td>
<td>1-10 mg/L: 48 h EC50</td>
<td>1-10 mg/L: 72 h EC50</td>
</tr>
<tr>
<td>alcohols, C9-C11, ethoxylated 68439-46-3</td>
<td>5-10 mg/L: 96 h LC50</td>
<td>5-10 mg/L: 48 h EC50</td>
<td>10-100 mg/L: 72 h EC50</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: 1993
UN Proper Shipping Name: Flammable Liquid, N.O.S. (xylenes)
Transport Hazard Class(es): TDG: 3
US DOT: 3
IMDG: 3
Label(s): 3
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.
16. OTHER INFORMATION

Preparation Date 3 July 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