1. IDENTIFICATION

Product Identifier
Product Name PENETONE 4022PS
Chemical Name Paraffin solvent, dispersant, and inhibitor

Recommended use of the chemical and restrictions on use
Recommended use Paraffin dispersion and sludge removal in tank and pipeline cleaning 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 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 2</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 1</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 2</td>
</tr>
</tbody>
</table>

Label Elements

DANGER

Hazard Statements
 Combustible liquid
 Causes skin and serious eye irritation
 Suspected of causing cancer
 May cause respiratory irritation and drowsiness or dizziness
 Causes damage to organs through prolonged or repeated exposure
 May be fatal if swallowed and enters airways
 Toxic to aquatic life with long lasting effects

Precautionary Statements - Prevention
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Do not breathe 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.
 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: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash 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.

If eye irritation persists: Get medical advice/attention.

If exposed or concerned: Get medical advice/attention.

Collect spillage.

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.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>solvent naphtha (petroleum), heavy aromatic</td>
<td>64742-94-5</td>
<td>60-100</td>
</tr>
<tr>
<td>nonylphenol, 4-, branched, ethoxylated</td>
<td>127087-87-0</td>
<td>7-13</td>
</tr>
<tr>
<td>naphthalene</td>
<td>91-20-3</td>
<td>1-5</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>95-63-6</td>
<td>1-5</td>
</tr>
<tr>
<td>1,2,3-trimethylbenzene</td>
<td>526-73-8</td>
<td>1-5</td>
</tr>
<tr>
<td>indane</td>
<td>496-11-7</td>
<td>0.5-1.5</td>
</tr>
</tbody>
</table>

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### 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 dust/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. If eye irritation persists, get medical advice/attention.

**Most important symptoms and effects, both acute and delayed**

Contact with eyes may cause serious eye irritation leading to discomfort or pain, excess blinking and tear production with marked redness and swelling of the conjunctiva. Contact with skin may cause irritation with local redness and possible dermatitis with prolonged or repeated exposure. 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 or pulmonary edema if aspirated. Material contains ingredients that may cause damage to red blood cells, eyes, and liver through prolonged or repeated exposure. 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**

High-volume water jet.

**Specific hazards arising from the chemical**

During fire, gases hazardous to health may be formed including oxides of carbon.
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. Avoid breathing fume/gas/mist/vapors/spray. Put on personal protective equipment. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Product may present a slipping hazard when spilled.

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 proper bonding or ground procedures. 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
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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>naphthalene 91-20-3</td>
<td>TWA: 10 ppm</td>
<td>TWA: 15 ppm/50 mg/m³</td>
<td>Not available</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene</td>
<td>Not available</td>
<td>Not available</td>
<td>25 ppm (REL)</td>
</tr>
<tr>
<td>95-63-6</td>
<td></td>
<td>STEL: 75 mg/m³</td>
<td></td>
</tr>
<tr>
<td>1,2,3-trimethylbenzene</td>
<td>Not available</td>
<td>Not available</td>
<td>25 ppm (REL)</td>
</tr>
<tr>
<td>526-73-6</td>
<td></td>
<td></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:**
Aromatic

**ODOR THRESHOLD:**
Not available

**pH:**
Not applicable

**MELTING POINT / FREEZING POINT:**
Not available

**BOILING POINT / BOILING RANGE:**
180-217°C (356-423°F)

**FLASH POINT:**
63°C / 145°F (TCC)

**EVAPORATION RATE:**
>1

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

**VAPOUR PRESSURE** mm Hg at 20°C:
Approx. 0.6

**VAPOUR DENSITY (Air = 1):**
4.7

**RELATIVE DENSITY AT 20°C:**
0.890-0.910

**SOLUBILITY IN WATER:**
Insoluble

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

**AUTO-IGNITION TEMPERATURE:**
455-463°C

**DECOMPOSITION TEMPERATURE:**
Not available

**FLAMMABLE LIMITS:**
**UPPER:** Approx. 6% v/v  **LOWER:** Approx. 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 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 as well as other low molecular weight hydrocarbons.

11. TOXICOLOGICAL INFORMATION

**Acute toxicity**

**ATD_{oral} – LD50 oral** – approx. > 3900 mg/kg (rat), **LD50 dermal** – approx. > 2000 mg/kg (rabbit), **LC50 inhalation-mist** – approx. > 5 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>solvent naptha (petroleum), heavy aromatic 64742-94-5</td>
<td>&gt;5000 mg/kg (rat)</td>
<td>&gt;2000 mg/kg (rabbit)</td>
<td>&gt;5.1 mg/L (rat) – 4 h mist</td>
</tr>
<tr>
<td>nonylphenol, 4-, branched, ethoxylated 127087-87-0</td>
<td>1310 mg/kg (rat)</td>
<td>1800 mg/kg (rabbit)</td>
<td>Not listed</td>
</tr>
<tr>
<td>naphthalene 91-20-3</td>
<td>490 mg/kg (rat)</td>
<td>&gt;20,000 mg/kg (rat)</td>
<td>141 ppm (rat) – 4 h</td>
</tr>
<tr>
<td>1,2,4-trimethylbenzene 95-63-6</td>
<td>5000 mg/kg (rat)</td>
<td>Not listed</td>
<td>18 mg/L (rat) – 4 h</td>
</tr>
<tr>
<td>1,2,3-trimethylbenzene 526-73-8</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
<tr>
<td>indane 496-11-7</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**Information on likely sources of exposure**

**Ingestion**
May cause stomach pains and other delayed 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 irritation. May cause pain, watering, redness, and blurred vision.
Delayed and immediate effects and also chronic effects from short and long-term exposure

Respiratory or skin sensitization
Not a sensitizer.

Germ cell mutagenicity
None known.

Carcinogenicity
napthalene (CAS 91-20-3) 2 Suspected of causing cancer

Reproductive toxicity
None known.

STOT - single exposure
solvent naptha (petroleum), heavy aromatic (CAS 64742-94-5)
3 May cause drowsiness or dizziness; narcotic effects, May cause respiratory irritation

STOT - repeated exposure
napthalene (CAS 91-20-3) 1 Causes damage to organs (red blood cells) through prolonged or repeated exposure (skin, inhalation)

Aspiration Hazard
solvent naptha (petroleum), heavy aromatic (CAS 64742-94-5)
1 May be fatal if swallowed and enters airways

Symptoms related to the physical, chemical and toxicological characteristics
Skin and eye irritation. Possible delayed effects due to prolonged or repeated skin exposure. Ingestion may cause irritation or a burning sensation of the mouth and throat, abdominal pain accompanied by nausea, vomiting, and 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. Possible delayed effects due to exposure related to carcinogenicity.

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>naphthalene 91-20-3</td>
<td>Not available</td>
<td>&gt;2 mg/L: 48 h EC50</td>
<td>Not available</td>
</tr>
<tr>
<td>nonylphenol, 4- branched, ethoxylated 127087-87-0</td>
<td>&gt;1 mg/L: 96 h LC50</td>
<td>&gt;1 mg/L: 48 h EC50</td>
<td>&gt;1 mg/L: 72 h EC50</td>
</tr>
</tbody>
</table>

Persistence and degradability
Expected to be readily biodegradable.

Bioaccumulative potential
No information available.

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: 3082
UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (polyethylene glycol mono (nonyl phenyl) ether)
Transport Hazard Class(es)
Class: TDG: 9
US DOT: 9
IMDG: 9
Label(s): 9
Packing Group: III
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: 1*
- Flammability: 2
- Reactivity: 0

16. OTHER INFORMATION

Preparation Date: 30 July 2018
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