SAFETY DATA SHEET

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

Flammable liquids	Category 4

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Carcinogenicity	Category 2
Specific target organ toxicity – single exposure	Category 3
Specific target organ toxicity – repeated exposure	Category 1
Aspiration hazard	Category 1

Hazardous to the aquatic environment, acute hazard	Category 2
Hazardous to the aquatic environment, long-term hazard	Category 2

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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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

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 ore 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.

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.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
naphthalene 91-20-3	TWA: 10 ppm	TWA: 15 ppm/50 mg/m^3 STEL: 75 mg/m^3	Not available
1,2,4-trimethylbenzene 95-63-6	Not available	Not available	25 ppm (REL)
1,2,3-trimethylbenzene 526-73-8	Not available	Not available	25 ppm (REL)

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 :
180-217ºC (356-423ºF)
FLASH POINT :
63ºC / 145ºF (TCC)
EVAPORATION RATE, water = 1 :
>1
FLAMMABILITY (SOLID, GAS) :
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC :
Approx. 0.6
VAPOR DENSITY (Air = 1) :
4.7
RELATIVE DENSITY AT 20ºC:
0.890-0.910
SOLUBILITY IN WATER :
Insoluble
PARTITION COEFFICIENT, N-OCTANOL/WATER :
Not available
AUTO-IGNITION TEMPERATURE :
455-463ºC
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
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
ATE_{mix} – LD50 oral – approx. > 3900 mg/kg (rat), LD50 dermal – approx. > 2000 mg/kg (rabbit), LC50 inhalation-mist – approx. > 5 mg/L – 4 h (rat)

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
solvent naptha (petroleum), heavy aromatic 64742-94-5	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>5.1 mg/L (rat) – 4 h mist
nonylphenol, 4-, branched, ethoxylated 127087-87-0	1310 mg/kg (rat)	1800 mg/kg (rabbit)	Not listed
naphthalene 91-20-3	490 mg/kg (rat)	>20,000 mg/kg (rat)	141 ppm (rat) – 4 h
1,2,4-trimethylbenzene 95-63-6	5000 mg/kg (rat)	Not listed	18 mg/L (rat) – 4 h
1,2,3-trimethylbenzene 526-73-8	Not listed	Not listed	Not listed
indane 496-11-7	Not listed	Not listed	Not listed

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.

Chemical Name	Fish	Waterflea	Algae
naphthalene 91-20-3	Not available	>2 mg/L: 48 h EC50	Not available
nonylphenol, 4-, branched, ethoxylated 127087-87-0	>1 mg/L: 96 h LC50	>1 mg/L: 48 h EC50	>1 mg/L: 72 h EC50

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