SAFETY DATA SHEET

1. IDENTIFICATION

Product Identifier
Product Name PENETONE 4015P

Recommended use of the chemical and restrictions on use
Recommended use Paraffin solvent
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

2. HAZARDS IDENTIFICATION

Classification

Flammable liquids	Category 2

Acute toxicity, inhalation - gases	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Reproductive toxicity	Category 2
Specific target organ toxicity – single exposure	Category 3
Specific target organ toxicity – repeated exposure	Category 2
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
Highly flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes eye irritation
Suspected of damaging fertility or the unborn child
May cause drowsiness or dizziness
May causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Toxic to aquatic life
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.

Keep container tightly closed.
Avoid breathing 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 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 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 SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
If exposed or concerned: Get medical advice/attention if you feel unwell.
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 %
toluene	108-88-3	30-60
n-hexane	110-54-3	15-40
n-heptane	142-82-5	10-30

4. FIRST AID MEASURES

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.

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.

Ingestion — Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed

Contact with eyes may cause irritation, discomfort or pain, excess blinking and tear production with marked redness of the conjunctiva. Contact with skin may be harmful if absorbed and 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 be harmful and cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may cause pneumonitis if aspirated. Material contains ingredients which may cause damage to the nervous system (CNS), brain, peripheral nervous system (PNS), heart, liver, kidneys, lungs, bladder, eyes or testes 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.

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 — 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.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
toluene 108-88-3	TWA: 20 ppm	TWA: 100 ppm/375 mg/m^3 STEL: 150 ppm/560 mg/m^3	Not listed
n-hexane 110-54-3	TWA: 20 ppm/72 mg/m^3	TWA: 50 ppm/180 mg/m^3 STEL: 400 ppm/1440 mg/m^3	Not listed
n-heptane 142-82-5	TWA: 400 ppm STEL: 500 ppm	TWA: 400 ppm/1600 mg/m^3 STEL: 500 ppm/2000 mg/m^3	Not listed

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, colorless liquid
ODOR
Solvent
ODOR THRESHOLD :
Not available
pH :
Not applicable
MELTING POINT / FREEZING POINT :
< -40°C
BOILING POINT/BOILING RANGE :
Not available
FLASH POINT :
<5°C (TCC)
EVAPORATION RATE, water = 1 :
>1
FLAMMABILITY (SOLID, GAS):
Not applicable
VAPOR PRESSURE, mm Hg AT 20ºC :
Not available
VAPOR DENSITY (Air = 1) :
>1
RELATIVE DENSITY AT 20ºC:
0.750-0.800
SOLUBILITY IN WATER :
Insoluble
PARTITION COEFFICIENT, N-OCTANOL/WATER :
Not available
AUTO-IGNITION TEMPERATURE :
Not available
DECOMPOSITION TEMPERATURE:
Not available
VISCOSITY:
Not available
FLAMMABLE LIMITS :
UPPER: 1% v/v **LOWER :** 7% 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

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
toluene 108-88-3	5580 mg/kg (rat)	12160 mg/kg (rabbit)	7585 ppm (rat) – 4h dust/mist 12500 – 28800 mg/m^3 (rat) – 4h
n-hexane 110-54-3	16 - 25 g/kg (rat)	3350 mg/kg (rabbit)	48000 – 73680 ppm (rat) – 4h 259354 mg/m^3 (rat) – 4h
n-heptane 142-82-5	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	48000 ppm (rat) – 4h 103000 mg/m^3 (rat) – 4h

Information on likely sources of exposure

Inhalation May cause respiratory irritation drowsiness or dizziness.
Serious eye damage/irritation Causes eye irritation. May cause pain, watering, redness, and blurred vision.

Skin corrosion/irritation Causes skin irritation possible dermatitis with prolonged exposure.
Ingestion May be harmful if swallowed. May cause stomach pains and other delayed effects.

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	None known.	
Reproductive toxicity	toluene (CAS 108-88-3)	2 Suspected of damaging fertility or the unborn child
	n-hexane (CAS110-54-3	2 Suspected of damaging fertility or the unborn child
STOT - single exposure	toluene (CAS 108-88-3)	3 May cause drowsiness or dizziness
	n-hexane (CAS110-54-3	3 May cause drowsiness or dizziness
	n-heptane (CAS 142-82-5)	3 May cause drowsiness or dizziness
STOT - repeated exposure	toluene (CAS 108-88-3)	2 May damage bladder, liver, kidney, brain by skin absorption
	n-hexane (CAS110-54-3	2 May damage peripheral nervous system, kidney, testes by skin absorption
Aspiration Hazard	toluene (CAS 108-88-3)	1 May be fatal if swallowed and enters airways
	n-hexane (CAS110-54-3	1 May be fatal if swallowed and enters airways
	n-heptane (CAS 142-82-5)	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.

Chemical Name	Fish	Waterflea	Algae
toluene 108-88-3	7.63 mg/L: 96 h rainbow trout LC50	6 mg/L: 48 h daphnia magna EC50	>100 mg/L: 96 h EL50
n-hexane 110-54-3	12.51 mg/L: 96 h rainbow trout LL50	21.85 mg/L: 48 h daphnia magna EL50	12.51 mg/L: 96 h LL50
n-heptane 142-82-5	1.284 mg/L: 96 h rainbow trout LL50	1.5 mg/L: 48 h daphnia magna EC50	4.338 mg/L: 72 h pseuodkirchneriella subcapitata EL50

Persistence and degradability
Expected to be readily biodegradable.

Bioaccumulative potential
Indication of accumulation in organisms.

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

TDG classification

UN 1268, Petroleum products, N.O.S. (hexanes), Class 3, PG II

15. REGULATORY INFORMATION

All ingredients are listed on the DSL

16. OTHER INFORMATION

Preparation Date 19 April, 2016
Revision Date not applicable
Revision Note not applicable

Disclaimer

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End of SDS