

# Petroleum Spirit

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	Petroleum Spirit
<b>Other Means of Identification</b>	Naphtha
<b>Recommended Use</b>	Solvent.
<b>Restrictions on Use</b>	None known.
<b>Manufacturer/Supplier Identifier</b>	Caledon Laboratories Ltd, 40 Armstrong Avenue, Georgetown, Ontario, L7G-4R9, (905) 877-0101, www.caledonlabs.com
<b>Emergency Phone No.</b>	CANUTEC, (613) 996-6666
<b>SDS No.</b>	0097

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Flammable liquid - Category 2; Skin irritation - Category 2; Eye irritation - Category 2B; Specific target organ toxicity (single exposure) - Category 3; Aspiration hazard - Category 1; Aquatic hazard (Chronic) - Category 2

### Label Elements



Signal Word:

Danger

Extremely flammable liquid and vapour.

May be fatal if swallowed and enters airways.

Causes skin and eye irritation.

May cause drowsiness or dizziness.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

Precautionary Statement(s):

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Heating may cause a fire or explosion.

Ground/bond container and receiving equipment.

Take precautionary measures against static discharge.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTRE or doctor.

Do NOT induce vomiting.

Causes serious eye damage.

Causes mild skin irritation.

May cause respiratory irritation.

Store in a well-ventilated place. Keep cool.

In case of fire: Use dry chemical powder, appropriate foam to extinguish.

Toxic to aquatic life with long lasting effects.

Dispose of contents and container in accordance with local, regional, national and international regulations. carbon

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dioxide

Storage:

#### Other Hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers
Ligroine	8032-32-4	100	EC 232-453-7

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

If breathing difficulties, dizziness, or light-headedness occur when working in areas with high vapour concentrations, remove victim to fresh air. If victim experiences continued breathing difficulties, keep patient warm and at rest, and seek medical attention. If breathing stops, begin artificial respiration and seek immediate medical attention.

##### Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

##### Eye Contact

Rinse the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.

##### Ingestion

Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. Give small quantities (<250 ml) of water to drink. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Seek immediate medical attention.

##### First-aid Comments

If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

This product is a CNS depressant.

#### Most Important Symptoms and Effects, Acute and Delayed

Inhalation: Petroleum ether may cause dizziness and drowsiness if inhaled, and high concentrations may result in central nervous system depression, and loss of consciousness.

Ingestion: Symptoms of ingestion may include nausea, vomiting, as well as symptoms of dizziness, drowsiness and central nervous system depression. If vomiting occurs, petroleum ether may be aspirated into the lungs, with a risk of chemical pneumonitis.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

Respiratory system, nervous system.

##### Special Instructions

Treat symptomatically.

##### Medical Conditions Aggravated by Exposure

None known.

### SECTION 5. FIRE-FIGHTING MEASURES

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## Extinguishing Media

### Suitable Extinguishing Media

Small fire: Carbon dioxide, dry chemical powder or appropriate foam. Large fire: Fire fighting foam suitable for the situation. Water spray should not be used, as petroleum ether is lighter than water and may form pools of burning liquid on top of water. Keep adjacent containers cool using water spray.

### Unsuitable Extinguishing Media

Water may be ineffective. Do not use a solid water stream as it may scatter and spread fire.

## Specific Hazards Arising from the Product

Extremely flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air. Can be ignited by static discharge. Liquid can float on water and may travel to distant locations and/or spread fire. May travel a considerable distance to a source of ignition and flash back to a leak or open container. In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide.

### Special Protective Equipment and Precautions for Fire-fighters

Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, flammable or explosive atmosphere.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Eliminate all ignition sources. Use grounded, explosion-proof equipment. Evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Increase ventilation to area or move leaking container to a well-ventilated and secure area. May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, if ventilation is not sufficient.

### Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

### Methods and Materials for Containment and Cleaning Up

Small spills or leaks: remove all ignition sources. Do not use absorbents. Contain spill using noncombustible material such as vermiculite, earth or sand. Place used absorbent into suitable, covered, labelled containers for disposal. Large spills or leaks: remove all ignition sources. Use non-sparking hand tools. Contain spill and cover if possible to reduce evaporation. Transfer to a suitable container by mechanical means. Take precautions to avoid static discharge, e.g. by grounding containers, etc.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Do not get in eyes, on skin or on clothing. Only use where there is adequate ventilation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Electrically bond and ground equipment. Ground clips must contact bare metal. Wash hands thoroughly after handling this material.

### Conditions for Safe Storage

Store in an area that is: well-ventilated, out of direct sunlight and away from heat and ignition sources. Keep container tightly closed. Separate from incompatible materials (see Section 10: Stability and Reactivity).

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

No exposure limits noted for ingredient. Good general ventilation should be used. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

### Appropriate Engineering Controls

Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash in work area, if contact or splash hazard exists.

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## Individual Protection Measures

### Eye/Face Protection

Wear chemical safety goggles.

### Skin Protection

Wear fire resistant or flame retardant clothing.

Suitable materials are: nitrile rubber. The following materials should NOT be used: natural rubber.

### Respiratory Protection

For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an organic vapour cartridge. This respirator does not protect against oxygen-deficient atmospheres.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Colourless.
<b>Odour</b>	Ethereal
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not applicable
<b>Melting Point/Freezing Point</b>	< -65.2 °C (-85.4 °F) (melting); < -65.2 °C (-85.4 °F) (freezing)
<b>Initial Boiling Point/Range</b>	60 - 99 °C (140 - 210 °F)
<b>Flash Point</b>	-18 °C (0 °F)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit</b>	11.6% (upper); 1.8% (lower)
<b>Vapour Pressure</b>	148 mm Hg
<b>Vapour Density (air = 1)</b>	3
<b>Relative Density (water = 1)</b>	Not available
<b>Solubility</b>	Insoluble in water; Mildly soluble in common organic solvents.
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	3.6 - 5.7
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	0.44 mm <sup>2</sup> /s (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>Molecular Formula</b>	Aliphatic naphtha

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to Avoid

Open flames, sparks, static discharge, heat and other ignition sources. Sunlight. Incompatible materials.

### Incompatible Materials

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric

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acid), halogens (e.g. chlorine).

#### **Hazardous Decomposition Products**

Very toxic carbon monoxide, carbon dioxide.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Likely Routes of Exposure**

Inhalation; ingestion.

### **Acute Toxicity**

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

### **Skin Corrosion/Irritation**

Not corrosive.

### **Serious Eye Damage/Irritation**

Human experience and animal tests show serious eye irritation. Symptoms include sore, red eyes, and tearing.

### **STOT (Specific Target Organ Toxicity) - Single Exposure**

#### **Inhalation**

At high concentrations depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness.

#### **Skin Absorption**

No information was located.

#### **Ingestion**

Can cause effects as described for inhalation. Symptoms may include headache, nausea, dizziness, drowsiness and confusion.

### **Aspiration Hazard**

If vomiting occurs, petroleum ether may be aspirated into the lungs, with a risk of chemical pneumonitis.

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

Prolonged or repeated contact of this product will result in defatting of the skin, causing dryness and cracking.

### **Respiratory and/or Skin Sensitization**

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

### **Carcinogenicity**

Not known to cause cancer.

### **Reproductive Toxicity**

#### **Development of Offspring**

Not expected to be a teratogen.

#### **Sexual Function and Fertility**

Not known to cause effects on sexual function or fertility.

#### **Effects on or via Lactation**

No information was located.

### **Germ Cell Mutagenicity**

Not known to be a mutagen.

### **Interactive Effects**

No information was located.

No information was located for: LD50 (oral), LD50 (dermal), Development of Offspring, Effects on or via Lactation, Interactive Effects

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Petroleum ether is classified as toxic to aquatic organisms and likely to cause long term effects in the environment.

### Persistence and Degradability

Expected to be readily biodegradable. Expected to be removed rapidly from aquatic environments by evaporation.

### Bioaccumulative Potential

No information was located.

### Mobility in Soil

If released into the environment, this product is not expected to move through the soil, based on physical and chemical properties.

### Other Adverse Effects

Very toxic to aquatic life with long lasting effects.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Recycle and reuse product, if possible. If recovery and recycling are not possible, petroleum ether may be disposed of by incineration. Empty containers retain product residue. Follow label warnings even if container appears to be empty. Do not allow this material to drain into sewers or water supplies.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN1268	Petroleum Distillates, N.O.S. (Petroleum Spirit)	3	II
IATA (Air)	UN1268	Petroleum Distillates, N.O.S. (Petroleum Spirit)	3	II
IMO (Marine)	UN1268	Petroleum Distillates, N.O.S. (Petroleum Spirit)	3	II

**Environmental Hazards** Environmentally Hazardous Substance

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

#### CEPA - National Pollutant Release Inventory (NPRI)

Part 5.

#### USA

#### Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

#### Additional USA Regulatory Lists

SARA Title III - Section 302:

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This product does not contain any constituents that are classified as an extremely hazardous substance.

SARA Title III - Section 311/312:

Fire hazard Immediate: Yes

Health hazard: Yes

SARA Title III - Section 313:

This product contains hexane which is considered a toxic chemical.

## SECTION 16. OTHER INFORMATION

<b>NFPA Rating</b>	<b>Health - 1</b>	<b>Flammability - 4</b>	<b>Instability - 0</b>
<b>SDS Prepared By</b>	Caledon Laboratories Ltd		
<b>Date of Preparation</b>	April 24, 2017		
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Supplier Safety Data Sheets.		
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