



SAFETY DATA SHEET

SECTION 01 - IDENTIFICATION

Product Identifier	PETROLEUM ETHER (60-90)
Other identification (Chemical name, Commercial name, Synonymous)	LIGROINE; VM & P NAPHTHA; BENZOLINE.
Product code	DP-0109
Chemical formula	$\text{CH}_3(\text{CH}_2)_n\text{CH}_3$
Molar weight	
Recommended use and Restrictions on use	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
Supplier	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
Emergency phone	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS	2026-03-27

SECTION 02 - HAZARDS IDENTIFICATION

WHIMS CANADA

- Skin corrosion/irritation - Skin irritation - category 2
- Flammable liquids - category 2
- Serious eye damage/eye irritation - Eye irritation - category 2B
- Specific target organ toxicity - Single exposure - category 3

PICTOGRAMS



Signal Word

DANGER

Hazards statements (H)

- Causes skin irritation
- Highly flammable liquid and vapour
- Causes eye irritation
- May cause respiratory irritation

Precautionary statements (P)

- Wash thoroughly after handling.
- IF ON SKIN: Wash with plenty of water
- If skin irritation occurs: Get medical attention.
- Wear protective gloves (nitrile, butyl, neoprene), protective clothing and eye and face protection.
- Keep away from heat, sparks, open flames, hot surfaces. — No smoking.
- Keep container tightly closed.
- Ground and bond container and receiving equipment.
- Use explosion-proof equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water.
- In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- Store in a well-ventilated place. Keep cool.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- 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 attention.
- Avoid breathing mists, gases, vapors and other fumes, or the product itself.
- Use only outdoors or in a well-ventilated area.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or a doctor or if you feel unwell.
- Store in a well ventilated place. Keep container tightly closed.
- Store locked up.

Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)

Health 1
Fire 4
Reactivity 0
Special danger

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
Petroleum ether	8032-32-4	<=100

SECTION 04 - FIRST AID MEASURE

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Eyes irritation. Irritation of the respiratory system. Headaches. Nausea and vomiting. Feeling drunk. Dizziness. Fatigue. Redness. Ref. section 11.
Immediate medical attention and special treatment, if necessary	Treat according to symptoms. Show this sheet to the attending physician.

SECTION 05 - FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Combustion products	Hazardous combustion products formed under fire conditions: Carbon dioxide. Carbon oxides.
Specific hazards of the dangerous product	Highly concentrated vapors in the air can ignite or even explode if exposed to an intense ignition source. Vapours can travel up to the ignition source and cause a backfire. Keep the product and empty containers away from heat and ignition sources. May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency measures	Evacuate personnel to safe areas. Cut off all sources of ignition. Use anti-spark tools and anti-explosion equipment. Avoid the accumulation of charges electrostatic. Beware of vapors accumulating to form explosive concentrations. Vapours can accumulate in low-lying areas. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills.
Methods and materials for containment and cleaning up	Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. Discharge into the environment must be avoided.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Keep container tightly closed in a dry, well-ventilated place. Keep container tightly closed and store away from heat, moisture, and incompatible products (ref. section 10). Keep away from sources of ignition - No smoking. Take measures to prevent the accumulation of electrostatic charges. Use venting and electrical equipment that is grounded and does not produce ignition sources (sparks). Protect from the sun's rays.
Methods of handling	Avoid contact withh eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE CONTROL PARAMETERS

Components	CAS-No.	Control parameters	Value	Basis
Petroleum ether	8032-32-4			Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	300ppm 1370mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
				Canada. Ontario Reg.833
				Canada. British Columbia OEL
				USA. ACGIH Threshold Limit Values (TLV)

Data origin

CNESST

Respiratory

If work under the hood is not possible, or if the permissible levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

Gloves

Handle with protective gloves. Suggested material: Nitrile. Butyl. Neoprene. The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

Eyes

Safety goggles with safety shutters.

Shoes

Use safety shoes.

Clothes

Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering control

Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.
Color	Clear to yellowish.
Odour	Aromatic odor.
Odour threshold	Data not available.
Melting point and freezing point	< -73 °C.
Boiling point	207 °F at 760 mmHg.
Flammability	Yes.
Lower flammable / Explosive limit	0.9 %.
Upper flammable / Explosive limit	6 %.
Flash point	20 °F (approx.).
Auto-ignition temperature	450°F .
Decomposition temperature	Data not available.
pH	Data not available.
Kinematic viscosity	Data not available.
Solubility	Insoluble in water. Miscible with absolute alcohol, benzene, chloroform, ether, carbon disulfide, carbon tetrachloride, and oils except castor oil
Partition coefficient water/n-octanol	Data not available.
Vapour pressure	2 to 20 mmHg.
Relative density	0,74 at 68°F.
Vapour density	Data not available.
Particle characteristics	Data not available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	Flammable product, may ignite with source of ignition, if temperature above flash point. May react violently with incompatible substances. May form explosive mixtures with air on intense heating.
Chemical stability	Sensitive to heat.
Possibility of hazardous reactions	Flammable liquid and vapours. Vapours can form explosive mixtures with air when heated. May react violently with incompatible substances.
Conditions to avoid	Avoid the build-up of static electricity. Avoid contact with incompatible materials and extreme temperatures. Heat, flames and sparks.
Incompatible materials	Oxydants. Strong acids. Strong bases.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO2).

SECTION 11 - TOXICOLOGICAL INFORMATION

PETROLEUM ETHER (60-90)

Routes of exposure	Ingestion, inhalation, skin and eye contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation.
- Skin	Dermatitis. Irritation.
- Inhalation	Breathing difficulties. Depression of the central nervous system. Chemical pneumonitis. Convulsions. Muscular weakness. Headaches. Nausea and vomiting. Dizziness. Drowsiness.
Acute toxicity (Ingestion)	Depression of the central nervous system. Chemical pneumonia. Feeling drunk.
Chronic exposure effects / symptoms	Degreasing action on the skin. Redness. Desquamation. Cracks. Neurotoxic effects. Loss of appetite. Muscle weakness. Paresthesia.
DL50 (specify species and route of entry)	LD50 Oral - Rat - >5000mg/kg. LD50 Dermal - Rabbit - >2000mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4 h - 15,54 mg/l.

SECTION 12 - ECOLOGICAL INFORMATION

PETROLEUM ETHER (60-90)

Ecotoxicity	Data not available.
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Data not available.
Mobility in soil	Will likely be mobile in the environment due to its volatility.
Other adverse effects	Causes long-term adverse effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	1268
UN Proper shipping name	
Transport hazard class(es)	Liquides inflammables 3
Packing group	II
Limited quantity index	1 L
ERAP Index	-
Special precautions	91,92,150

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

- Skin corrosion/irritation - Skin irritation - category 2
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SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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