

MATERIAL SAFETY DATA SHEET

Ref. No. : LS3541

Issue date : October 2003

Issued by LABSCAN ASIA

PRODUCT NAME : PETROLEUM ETHER 40/60

COMPANY DETAILS

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HAZARDS IDENTIFICATION

Product Name	PETROLEUM ETHER 40/60		
Proper Shipping Name	PETROLEUM EHTER n.o.s.		
Other Names	<u>Name</u>	<u>Grade</u>	<u>Labscan Code</u>
	PETROLEUM ETHER 40/60	AR	A3541
	PETROLEUM ETHER 40/60	HPLC	C2541
	PETROLEUM ETHER 40/60	PESTI	P5541
	PETROLEUM NAPHTHA, PETROLEUM DISTILLATE		
UN No.	1268		
D.G. Class	3.1		
Packing Group	II		
Hazchem Code	3[Y]E		
Poisons schedule	S5		
<u>Chemical name n - HEXANE</u>			
EEC-No	601-037-00-0		
Class	F; R11 Xi; R38 Xn; R48/20 R62 R65 R67 N; R51/53		
CAS-No	110-54-3		
Weight	<=5%		
<u>Chemical name EXTRACTS (PETROLEUM), LIGHT NAPHTENIC DISTILLATE SOLENT</u>			
EEC-No	650-001-01-8		
Class	F' R11 Xn; R38 R65 R67 N; R51/53		
CAS-No	64742-49-0		
Weight	>=95%		

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Most important hazards: Highly flammable.
Harmful by inhalation and in contact with skin.
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May impair fertility.

Specific hazards: The vapor has narcotic effect and in high concentrations induces unconsciousness which can be fatal.
Harmful if swallowed: damages Lungs.
In use, may form flammable / explosive vapor-air mixture.

FIRST AID

General advice: Show this safety data sheet to the doctor in attendance.

Inhalation: Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth – to – mouth or mouth to nose. Use suitable instruments / apparatus. Obtain medical attention.

Skin contact: Remove contaminated clothing and wash affected skin with soap and water. Wash contaminated clothing before re-use. If signs of poisoning appear, treat as for inhalation.

Eye contact: If the substance has got into the eyes, wash out with water or saline solution for at least 15 minutes. Obtain medical attention.

Ingestion: Rinse mouth. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth-to-mouth or mouth to nose. Use Suitable instruments / apparatus. Obtain medical attention.
Never give anything by mouth to an unconscious person.

FIRE-FIGHTING MEASURES

Suitable extinguishing media:
Extinguish with carbon dioxide, dry chemical, foam or water spray.

Extinguishing media which must not be used for safety reasons:
Do not use a solid water stream as it may scatter and spread fire.

Specific hazards:
Decomposes in a fire giving off toxic fumes and dense clouds of smoke (carbon oxides).

Special protective equipment for firefighters:
Self-contained breathing apparatus / full protective flameproof clothing.

Specific methods:
Standard procedure for chemical fires.
Water mist may be used to cool closed containers.

Hazchem Code:
S5

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ACCIDENTAL RELEASE MEASURES

Personal precautions:	Evacuate personnel to safe areas. Remove all sources of ignition. Wear self-contained breathing apparatus and protective suit. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.
Environmental precautions:	Contain leaking liquid with sand or earth, allow to evaporate. Prevent liquid entering sewers, basements and work pits; vapor may create explosive atmosphere. If substance has entered a water course or sewer or contaminated soil or vegetation, advise police.
Methods for cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Transfer to covered steel drums. Contact waste disposal services. Dispose of promptly.

SAFE HANDLING AND STORAGE INFORMATION

Handling:	Use only in areas provided with appropriate exhaust ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Keep away from open flames, hot surfaces and sources of ignition.
Storage:	Keep tightly closed in a dry, cool and well-ventilated place. Take precautionary measures against static discharge. Store in original container. Electrical equipment should be protected to the appropriate standard.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name: n – Hexane Extracts (Petroleum), Light naphthenic, distillate solvent	National occupational exposure limits: EH40:OES: 50 ppm (180 mg/m ³) 8h TWA. No data is available on the product itself.
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Engineering measures to reduce exposure:

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Ventilation hoods and fans required when working with organic solvents or in hot melt applications.

Personal protection equipment:

- | | |
|---|---|
| <input type="checkbox"/> Respiratory protection: | Incase of insufficient ventilation wear suitable respiratory equipment. |
| <input type="checkbox"/> Hand protection: | Neoprene gloves, PVC disposable glove. |
| <input type="checkbox"/> Eye protection: | Goggles giving complete protection to eyes. |
| <input type="checkbox"/> Skin and body protection: | Solvent-resistant apron and boots. |

Hygiene measures:

Keep away from food, drink and animal feeding stuffs. Keep working clothes separately.

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PHYSICAL DATA AND OTHER PROPERTIES

Formula		Not applicable.
Form		Liquid,
Colour		Colourless, clear,
Odour		Mild characteristic
pH		No data available
Boiling point/range		40-60°C
Melting point/range		No data available
Decomposition temperature		No data available
Flash point		<-30°C
Autoignition temperature		280°C
Explosion limits	lower	1.0 vol.%,
	Upper	7.0 vol.%
Oxidizing properties		No data available
Vapour pressure		No data available
Relative density	(15°C)	>= 0.660 mg/ml <= 0.665 mg/ml.
Bulk density		660 kg/m ³
Solubility		
	Water solubility (°C)	immiscible g/l
	Solubility in other solvents	
Partition coefficient (n-octanol/water)		No data available
Viscosity	(20°C)	0.22 mPa.s

STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Conditions to avoid:	Keep away from heat and sources of ignition. Take precautionary measures against static discharge.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Decomposes in a fire giving off toxic fumes : carbon oxides.

TOXICOLOGICAL INFORMATION

Acute toxicity:	Inhalation: LC50/inhalation/4h/rat = 54 mg/l High concentration of vapors may induce unconsciousness, nausea, headache, dizziness, vomiting, cyanosis.
	Skin contact: LD50/dermal/rabbit = 4000 mg/kg Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

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Acute toxicity:	Eye contact: Irritating to eyes.
	Ingestion: LD50/oral/rat = 2000 mg/kg Ingestion of larger amounts may cause defects to the central nervous system (e.g. dizziness, headache).
Sensitization:	Irritating to respiratory system. Slightly irritant to eyes. Slight irritating to skin.
Long term toxicity:	Repeated or prolonged exposure to solvents may cause brain and nervous system damage.
Chronic toxicity:	Chronic exposure may cause permanent damage of health.

ECOLOGICAL INFORMATION

Mobility:	Immiscible with water. Lighter than water.
Persistence / degradability:	Readily biodegradable, according to appropriate OECD test.
Bio accumulation:	Bio accumulation not significant.
Ecotoxicity:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging:
Empty containers can be land filled after cleaning, when in compliance with local regulations.
Empty containers should be taken for local recycling, recovery or waste disposal.

TRANSPORT INFORMATION

UN-No1268 ADR/RID Class3.1 TREM-CARDLABTRM528 Proper shipping namePETROLEUM ETHER n.o.s. IMO Class3.1 MFAG311 Proper shipping name PETROLEUM ETHER n.o.s. ICAO Class3 Proper shipping name PETROLEUM ETHER n.o.s.	Marine pollutantnot Item3(b) HI/UN No1268 EmS3-07 IMDG Page3141 UN/ID No1268
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REGULATORY INFORMATION

Classification according to European directive on classification of hazardous preparations 90/492/EEC

Contains PETROLEUM ETHER

Symbol(s) F – Highly flammable



Highly flammable

- | | | |
|----------------------|--------|--|
| R – phrase(s) | R11 | - Highly flammable. |
| | R38 | - Irritating to skin. |
| | R51/53 | - Toxic aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S – phrase(s) | R62 | - Possible risk of impaired fertility. |
| | R65 | - Harmful : may cause lung damage if swallowed. |
| | R67 | - Vapours may cause drowsiness and dizziness. |
| | S9 | - Keep container in a well-ventilated place. |
| | S16 | - Keep away from sources of ignition – No smoking. |
| | S23 | - Do not breathe vapour. |
| | S24 | - Avoid contact with skin. |
| | S33 | - Take precautionary measures against static discharges. |
| | S62 | - If swallowed, do not induce vomiting : seek medical advice immediately and show this container or label. |

Recommended restrictions: Take notice of labels and material safety data sheets for the working chemicals. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

Recommended use: General purpose solvent.

CONTACT POINT

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