



Safety Data Sheet

Date of Issue: 04.03.2021

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1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : **ECP Limited**
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Product	Petroleum ether 40-60			Code	4980
CAS#	HSNO#	UN #	DG Class/es	Packing group #	
64475-85-0	HSR007342	1268	3	III	

Recommended use : Laboratory Investigations

2: Hazards identification

Environmental Protection Authority (EPA) New Zealand

Classification 3.1C Flammable Liquids: medium hazard
Classification 6.1E (All) Acutely toxic
Classification 6.3A Irritating to the skin

2.1 GHS Classification

Flammable Liquids (Category C), H226
Skin irritation (Category A), H315
Eye irritation (Category A), H319

2.2 GHS Label elements, including precautionary statements

Hazard Pictogram



Signal Word : **Warning**

Hazard statement(s)

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statement(s)

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3: Composition/information on ingredients

Substance/Mixture: Substance

3.1 Substances

Synonyms: Ligroin , Petroleum spirits

Chemical Identity	CAS number	Content in percent (%)*
Petroleum Ether	64475-85-0	100.00%

** All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume*

4: First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Dry powder

Dry sand

Unsuitable extinguishing media

Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal.

7: Handling and storage

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

None of the components have assigned exposure limits.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation if fumes or vapors are generated. Explosionproof general and local exhaust ventilation.

Personal protective equipment

Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

9: Physical and chemical properties

9.1 Appearance

Physical state	: Liquid
Form	: Liquid
Color	: Colorless
Odor	: No data available.
Odor threshold	: No data available.
pH	: No data available.
Melting point/freezing point	: -73 °C
Initial boiling point and boiling range	: No data available.
Flash Point	: < -40 °C (Closed Cup)
Evaporation rate	: No data available.
Flammability (solid, gas)	: Class IB Flammable Liquid

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%)	: 5.9 %(V)
Flammability limit - lower (%)	: 1.1 %(V)
Explosive limit - upper (%)	: No data available.
Explosive limit - lower (%)	: No data available.
Vapor pressure	: 5.33 kPa (20 °C)
Vapor density	: No data available.
Density	: No data available.
Relative density	: No data available.
Solubility(ies)	
Solubility in water	: Insoluble
Solubility (other)	: benzene : Miscible

carbon disulfide : Miscible
carbon tetrachloride: Miscible
chloroform : Miscible
ether : Miscible

Partition coefficient (n-octanol/water) : No data available.

Auto-ignition temperature	: 280 - 470 °C
Decomposition temperature	: No data available.
Viscosity	: < 1 mm ² /s (37.8 °C)

10: Stability and reactivity

10.1 Chemical stability

Stable under recommended storage conditions.

10.2 Conditions to avoid

Heat, flames and sparks.

11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 7,500 mg/kg

LD50 Dermal - Rabbit - > 2,000 mg/kg

Carcinogenicity

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans

Aspiration Hazard

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

12: Ecological information

12.1 Toxicity

Toxicity to algae

IC50 - Pseudokirchneriella subcapitata (green algae) - 3,000 mg/l - 72 h

12.2 Persistence and degradability Biodegradability

Biotic/Aerobic

Result: 8 - 22 % - Partially biodegradable.

13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Contaminated packaging

Dispose of as unused product.

14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	1268	1268	1268
14.2	UN Proper Shipping name	PETROLEUM DISTILLATES, N.O.S.	PETROLEUM DISTILLATES, N.O.S.	Petroleum distillates, n.o.s.
14.3	Transport Hazard Class	3	3	3
14.4	Packaging group	III	III	III
14.5	Environmental Hazards	No	No	No
14.6	Special precautions for user	None		

15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulatory information

HSNO Approval Code: HSR007342

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any

third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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