

ECO-OIL Ltd

MATERIAL DATA SHEET FOR RECOVERED FUEL OIL

Product identification and company details

Product name: Recovered Fuel Oil

Company identification: ECO-OIL Ltd,
7 New Quay Road,
Felnex Industrial Estate
Newport
NP19 4PL

Emergency telephone number: 01299 832620

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Composition

Substance/ Preparation: Recycled fuel oil.

Components/ Impurities: A mixture of off-spec fuel oils, marine slops, and used mineral lubricating oils from automotive servicing work shops.

Identified Hazards

Low acute oral toxicity, but minute amounts aspirated into the lungs during ingestion may cause severe pulmonary injury. Product may degrade the skins natural greases, which may result in dryness or cracking of the skin and a possibility of dermatitis.
Harmful to aquatic organisms and could cause long-term, adverse effects in the aquatic environment.

First Aid

Inhalation: Move the affected person to fresh air. If breathing has stopped administer artificial respiration. Give cardiac massage if necessary. If the person is breathing but unconscious, place in the recovery position. Obtain medical assistance immediately and show this data sheet.

Skin contact: Contaminated clothing should be removed immediately and laundered before re-use. Wash contaminated skin thoroughly with warm water and soap or a proprietary cleansing gel. If skin irritation develops, seek medical attention.

Eye contact: Flush the eye with copious quantities of water, or use sterile eyewash. If irritation persists seek medical attention.

Ingestion: **DO NOT INDUCE VOMITING.** Wash the mouth out with water, if patient is conscious. If ingestion is suspected, despatch the affected person to hospital immediately and show this data sheet to the Doctor.

Fire fighting measures

Large fires: Extinguish with foam / dry powder extinguishers or a water fog.
NEVER USE WATER JET.

Small fires: Extinguish with foam / dry powder / carbon dioxide extinguishers, or sand / earth.

Accidental release measures

Remove all potential sources of ignition. Take precautions against skin and eye contact. Absorb spillage with sand, granules or any suitable absorbent material. Transfer contaminated absorbents to a container for specialist disposal. Prevent the product entering drains, sewers or watercourses. The Environment Agency must be advised immediately on 0800 80 70 60 if this product enters a storm drain or watercourse.

Handling and Storage

Handling.	Avoid contact with skin and eyes. Do not inhale oil vapours, mists or spray. Ensure there is adequate ventilation, including appropriate local extraction and ensure that the defined occupational exposure limit is never exceeded.
Storage	Keep away from heat and sources of ignition. Keep away from strong oxidising agents. Store at ambient temperature.

Exposure controls and Personal protection

Occupational Exposure Limit	The occupational exposure standard (OES) for mineral oil mist, as given by HMSO in guidance note EH40 2000, is: - Long term limit (8 hour TWA): 5 mg/m ³ Short-term limit (15-minute reference period): 10 mg/m ³ <u>It is strongly advised that these levels are not exceeded.</u>
Personal protection	Do not smoke, eat or drink, whilst handling this product. In open systems where contact is likely, wear safety goggles, overalls and PVC gloves. Barrier cream should be applied to the hands and wrists prior to work and re-applied after washing. Lanolin should be applied to the hands and wrists at the end of work, to restore possible degradation of the skins natural fats and greases. Where concentrations in air may exceed the occupational exposure limit and where engineering, work practices, or other means of exposure reduction are inadequate, approved respirators should be worn.

Physical and chemical properties

Appearance	Black liquid, fluid at ambient temperature
Odour	Typical of lubricating / fuel oils
pH	Mildly acidic
Flash point	Greater than 60° C
Flammability limits in air	LEL 0.8; UEL 7.0 (approx. % by volume)
Auto-ignition temperature	200° C minimum
Explosive properties	No data
Oxidising properties	Non-oxidising
Vapour pressure	Not determined
Solubility, water	<0.1% (virtually immiscible)

Stability and reactivity.

Stability	Stable under normal conditions. Keep away from excessive heat and open flames.
Hazardous reactions:	Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous decomposition products:	None known.

Toxicological information and the effects of over exposure

Inhalation	The product is unlikely to be toxic by inhalation because of its low vapour pressure at ambient temperature, although high concentrations of mist may irritate the upper respiratory tract. The vapour has anaesthetic properties and when inhaled in high concentrations may cause respiratory irritation, headache, fatigue, dizziness and temporary loss of co-ordination.
Skin Contact	Repeated or prolonged contact with the skin may result in moderate irritation. Oil products can degrade the skins natural fats and greases, resulting in dryness, cracking and dermatitis. This product is unlikely to cause skin sensitisation. Prevent skin contact by wearing suitable personal protective equipment clothing and applying barrier cream and lanolin.
Eye Contact	Slightly irritating, yet causes minimal damage to eye tissue.
Ingestion	Low acute oral toxicity, but minute amounts of this product if aspirated into the lungs during ingestion may cause severe pulmonary injury. This product is an irritant and can cause nausea and vomiting.
Long Term Exposure	Recovered Fuel Oil, being partly derived from used mineral and synthetic lubricants, may possess carcinogenic properties. Prolonged, excessive exposure to this product, particularly in the absence of adequate PPE and a sound personal hygiene programme, is believed to increase the likelihood of skin cancer.

Ecological information

If this product is accidentally released to the environment, it will remain largely on the soil surface; and in an aquatic environment will distribute largely between the water and sediment surfaces. Due to certain components of this product, harmful effects could occur to terrestrial and aquatic habitats. This product is generally resistant to biodegradation and can be quite persistent in the environment.

Disposal considerations

Normal disposal is by incineration, operated by a licenced disposal contractor. Any disposal method must comply with regional, national or international Special Waste legislation.

Transport and labelling information

Non hazardous, transport at ambient temperature

Description:	Fuel Oil
Symbol:	3Z
UN Number:	Not listed
ADR / CDG:	Not listed

Regulatory information

Risk Phrases:	R36	:	Irritating to eyes
	R38	:	Irritating to skin
	R45	:	May cause cancer
	R52	:	Harmful to aquatic organisms
	R53	:	May cause long term adverse affects in the aquatic environment.
Safety Phrases:	S24	:	Avoid contact with the skin
	S25	:	Avoid contact with eyes
	S27/S28	:	After contact with skin, take off immediately all contaminated clothing and wash immediately with soap and warm water, or cleansing gel
	S29	:	Do not empty into drains
	S36/S37	:	Wear suitable protective clothing and gloves
	S43	:	In case of fire use water fog, foam, dry powder or carbon dioxide extinguishers. Never use water jet
S56	:	Dispose of this material and containers to hazardous or special waste collection point	

S59	:	Refer to supplier for information on recovery / recycling
S61	:	Avoid releasing to the environment. Refer to special instructions on this data sheet
S62	:	If swallowed, do not induce vomiting
S63	:	In case of accident by inhalation, remove casualty to fresh air and keep at rest
S64	:	If swallowed, rinse mouth out with water (only if person is conscious)

Hazard classification: Low Hazard

Further information

This product is marketed as 'Recovered Fuel Oil'.

Current environmental legislation demands the consumer to be appropriately authorised to burn this Recovered Fuel Oil by their local authority.

Enquiries: e-mail us on: info@eco-oil.eu.com

Web site: www.eco-oil.eu.com

Document type / status

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