

Material Safety Data Sheet:

Engol 2-Stroke Oil

1. Product and Company Identification

Product Name: Engol 2-Stroke Oil

Product Use:

Supplier: Engol Group (Pty) Ltd

4 Silicon Road, Pinetown,

4147

Health Emergency Telephone:

10111

Contact Information:

Engol Website:

info@engolgroup.com

http://www.engolgroup.com

2. Hazards Identification

Emergency response data: Red Liquid. Flammable. Category 4.

Physical hazards: Combustible Liquid.

Precautionary Statements:

RESPONSE: In case of fire. Use dry chemical foam, water, fog or carbon dioxide

for extinction.

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

Wear protective gloves and clothing, eye and face protection.

STORAGE: Store in a well-ventilated place. Keep cool.

DISPOSAL: Dispose of contents/container in accordance with applicable local/

regional/international regulations.

See section 11 for further health effects/toxicological data.

3. Composition / information on ingredients:

Components	CAS-No	Weight %	
Highly refined mineral oil (C15 - C50)	Mixture	60 - 90	
Distillates, hydrotreated light	64742-47-8	16.9	

See section 8 for further exposure limits (if applicable) See section 15 for European label information



4. First Aid Measures

Inhalation: Remove from further exposure. If respiratory irritation, occurs, seek

immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resusci

tation.

Skin Contact: Remove contaminated clothing. Dry wipe exposed skin and cleanse

with hand cleaner, soap and water. Launder contaminated clothing

before reuse.

Eye Contact: Flush thoroughly with water. If irritation occurs, consult a doctor.

Ingestion: Seek medical attention. Do not induce vomiting.

Self-protection of the First Aider: When administering first aid, ensure that the appropriate personal

protective equipment is worn, according to the incident, injury and

surroundings.

5. Fire-Fighting Measures

Clear fire area of all non-emergency personnel.

Extinguishing Media: Foam, water fog, dry chemical powder and carbon dioxide.

Special firefighting procedure: Water or foam may cause frothing. Use water to keep fire exposed

containers cool. Water spray may be used to flush spills away from

exposure. Prevent runoff from fire control or dilution from entering streams, municipal sewers, or drinking water supply.

Special protective equipment:

for Firefighters

Proper protective equipment including breathing apparatus must be

worn when approaching a fire in a confined space.

Unusual fire and explosive:

Products of decomposition:

Hazard

Flammable. Vapour accumulation could flash or explode if in contact

with an open flame or ignition source.

Fumes, smoke and carbon monoxide.

Flash Point: > 80°C (ASTM D92)

NFPA Hazard ID: Health: 0; Flammability: 1; Reactivity: 0

Advice for firefighters: Proper protective equipment including chemical resistant gloves are

to be worn; chemical Resistant suit is indicated if excessive contact with spilled product is expected. Self-Contained Breathing Apparatus

must be worn when approaching a fire in a confined space. Select fire fighter's clothing approved to relevant standards.

6. Accident Release Measures

Personal precautions: See Section 8.

Procedure if material is released:

or spilled

Report spills/releases as required to appropriate authorities.



Methods for cleaning up: LAND SPILL: Shut off spill source taking normal safety precautions.

Enforce measures to minimise the effects on ground water. Recover by shoveling up, or contain spilled material with sand or other suit

able absorbent and remove mechanically into containers.

WATER SPILL: Eliminate all sources of ignition. Warn occupants and/ or other ships in the area of fire and explosion hazard. Consult an expect on the recovery and disposal of material according to local

regulations.

Environmental precautions: Prevent spill from entering municipal sewers, water sources or low

lying areas. Advise the Relevant authorities if contaminations have

occurred.

Additional advice: Local authorities should be advised if significant spillages cannot be

contained

7. Handling & Storage

Storage Information: Store away from source of ignition in a cool, well-ventilated area.

Product is known to be a static accumulator, therefore all storage containers should be grounded and bonded. Store away from strong

oxidizing agents or combustible material.

Handling: Avoid prolonged or repeated contact with skin. Avoid inhaling

vapours and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be

used.

Storage and handling procedure: To minimise the risk of fire or explosion from discharge, static and

vapour accumulation, effectively bond and ground product storage

and transfer systems.

Container warnings: Container is not designed to contain pressure. DO NOT use pressure

to empty container or it might rupture with explosive force. Empty containers contain residue and can be dangerous. Do not pressurize, cut, weld, solder, drill, grind or expose such containers to heat, flame,

sparks, static electricity, or any other source of ignition.

Conditions for safe storage: including any incompatibilities

DO NOT USE OR STORE near heat, sparks, flames or hot surfaces. USE AND STORE ONLY IN WELL VENTILATED AREA. Keep container

closed when not in use.

8. Exposure Control / Personal Protection

Occupational Exposure Limits (OELs)

Components	Agency	TWA	STEL	Ceiling	Notion
Highly refined mineral oil (C15 – C50)	OSHA Z-1	5 mg/m3			
Distillates, hydrotreated light	ACGIH	5 mg/m3	10 mg/m3		



Personal Protection Equipment:

Engineering controls: Use in a well-ventilated area. Explosion-proof ventilation equipment

with local exhaust is desirable.

Respiratory protection: Approved respiratory equipment must be used when mist concentra-

tions exceed the recommended exposure limits. For confined spaces,

self-contained breathing apparatus may be required.

Eye protection: Industrial eye protection practices should be employed.

Skin and body protection: Impervious gloves and clothing must be worn. Good personal hygiene

practices should always be followed.

9. Physical and Chemical Properties

Appearance: Liquid Colour: Red

Odour: Petroleum Odour

Solubility: Soluble in hydrocarbons. Insoluble in water.

Flash point: 70°C

 Vapour pressure:
 > 0.01 mmHg (Typical) @ 37.8°C (100°F)

 Density:
 0.8727 g/cm3 @ 20°C (ASTM D4025)

 Viscosity, kinematic:
 7.521 mm2/s @ 100°C (ASTM D445)

10. Stability & Reactivity

Stability: This material is stable under normal ambient and anticipated storage

and handling conditions of temperature and pressure.

Reactivity: May react with strong acids or strong oxidising agents, such as

chlorates, nitrates, peroxides, etc.

Hazardous decomposition:

products

Fumes, smoke and carbon monoxide.

11. Toxicological Information

Aspiration hazard: Not expected to be an aspiration hazard.

Skin corrosion / irritation:

Serious eye damage:

Skin sensitization:

Respiratory sensitization:

No known significant effects or critical hazards.

(Single exposure) - STOT-SE
Specific target organ toxicity:

No known significant effects or critical hazards.

(Repeated exposure) - STOT-RE Carcinogenic:

Carcinogenic: No known significant effects or critical hazards. Germ cell mutagenicity: No known significant effects or critical hazards. Reproductive toxicity: No known significant effects or critical hazards.



12. Ecological Information

Biodegradability: This material is not expected to be readily biodegradable. The biode

gradability of this material is based on an evaluation of data for the

components of similar material.

Bioaccumulation: This product is not expected to bioaccumulate.

Mobility: Base oil component - low solubility and floats and is expected to

migrate from water to land.

Expected to partition to sediment and waste water solids.

Other adverse effects: Spills may form a film on water surfaces causing physical damage to

organisms. Oxygen transfer could also be impaired.

13. Disposal Considerations

Waste disposal: Product is suitable for burning in an enclosed, controlled burner for

fuel value or disposal by incineration. Such burning may be limited pursuant to the Rescue Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. The use of these methods are subject to user compliance with applicable laws, regulations and considerations of

the product characteristics at the time of disposal.

Contaminated Packaging: Empty containers retain residue (liquid and/or vapour) and can be

dangerous. Do not pressurize, cut, weld, braze, solder, etc. or expose such containers to heat, flames, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Do not attempt the reuse of clean containers, since residue is difficult to remove. Empty drums should be completely drained, bunged and

return to a drum reconditioner.

All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Local Legislation: Disposal should be in accordance with applicable regional, national

and local laws and regulations.

Flash Point: 70°C

14. Transportation Information

This product is a static accumulator (50 picosiemens or less).

DOT Shipping Description: UN1268, Petroleum Products, N.O.S. Combustible Liquid III.

IMO/IMDG Shipping Description: Not regulated as dangerous goods for transportation under the IMDG

code.

ICAO/IATA Shipping Description: Not regulated as dangerous goods under the ICAO TI/IATA DGR code.



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15. Regulatory Information

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

EPCRA 311/312 Categories: 1. Immediate (Acute) Health Effects: No

Delayed (Chronic) Health Effects:
 Fire Hazard:
 Sudden release of pressure hazard:
 No

5. Reactivity Hazard:

Regulatory List Searched:

01-2A = IARC Group 2A 04 = CA Proposition 65

01-2B = IARC Group 2B 05 = MA RTK 02 = NTP Carcinogenic 06 = NJ RTK

07 = PA RTK

16. Other Information

NFPA RATINGS: Health: 0 Flammability: 2, Reactivity: 0

MSDS Version Number: 1.0

MSDS Effective Date: 01.05.2017

INJECTION INJURY WARNING: If product is injected into or under the skin, or into and part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency.

SAFETY: Under normal conditions of intended use, this product does not pose a health risk. Excessive exposure may result in skin, eye and respiratory irritation. Always observe good hygiene practices. Keep away from heat and flame. Keep container closed and out of the reach of children.

FIRST AID: Wash skin with soap and water. Flush eyes with copious amounts of water for several minutes. If overcome by fumes or vapours, remove person(s) to fresh air. If swallowed, do not induce vomiting. Seek medical assistance if symptoms persist. Before using this product, read and understand the MSDS.