Engol™

GUARANTEED PERFORMANCE

Material Safety Data Sheet:

Engol Solvent Based Degreaser

1. Product and Company Identification

Product Name :	Engol Solvent Based Degreaser
Product Use:	Emulsifiable Degreasing Fluid
Supplier:	Engol Group (Pty) Ltd 4 Silicon Road, Pinetown, 4147
Health Emergency Telephone:	10111
Contact Information:	info@engolgroup.com
Engol Website :	http://www.engolgroup.com

2. Hazards Identification

Emergency response data: Green Liquid. Flammable. DOT ERG No. - 128

Physical hazards:

Flammable liquids: Category 2 - Highly flammable liquid and vapour.

Health hazards:

Acute Toxicity (Oral):	Category 4 - Harmful if swallowed, in contact with skin, inhaled.
Skin irritation:	Category 2 - Causes skin irritation.
Eye irritation:	Category 2A - Causes eye damage.
Aspiration hazard:	Category 1 - May be fatal if swallowed or enters the airways.

HAZARD AND PRECAUTIONARY STATEMENTS:

- May be harmful if swallowed, in contact with skin or if inhaled.
- May be fatal if swallowed and enters airways.
- May cause respiratory irritation.
- Toxic to aquatic life, with long lasting effects.
- If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.
- Do not handle until all precautions have been read and understood.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves and clothing, eye protection and face protection. Use PPE as required.
- Keep away from sparks, open flames, heat and hot surfaces.
- Take precautionary measures against static discharge.
- Do not breathe dust, fumes, gas, mist, spray or vapours.

Total VOC's: 10%

See section 11 for further health effects/toxicological data.

3. Composition / information on ingredients

Components	CAS-No	Weight %
Kerosene	8008-20-6	50 - 60
Xylene (mixed isomers)	1330-20-7	30 - 40

See section 8 for further exposure limits (if applicable).

4. First Aid Measures

Inhalation:	Remove from further exposure to fresh air immediately. If respiratory irritation, nausea, dizziness, or unconsciousness occurs, seek medical assistance immediately.
Skin Contact:	Remove contaminated clothing. Dry wipe exposed skin and cleanse with hand cleaner, soap and water. Launder contaminated clothing before reuse.
Eye Contact:	DO NOT DELAY. Flush eyes with copious amounts of water for at least 15 minutes. Seek assistance immediately.
Ingestion:	Wash out mouth with water and obtain immediate medical attention.
Important symptoms and effects:	Allergic reaction signs and symptoms may include itching and/or a rash. The undiluted product is irritating to the eyes with the potential to cause corneal injury if treatment is not immediate.
Immediate medical attention /	Treat Symptomatically.

5. Fire-Fighting Measures

Clear fire area of all non-emergency personnel.

Extinguishing Media:	Alcohol-resistant foam, waterpsray, dry chemical powder or carbon-dioxide.
Unsuitable extinguishing media:	Do not use water in a jet.
Special firefighting procedure:	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:	Self-contained breathing apparatus.
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:	Avoid contact with skin, eyes and clothing.
Procedure if material is released or spilled:	Wear appropriate PPE before approaching spill site. For small spills, dilute with water to sewer if allowed by local and state regulations. If unable to wash product with water, absorb with inert material (sand or other approved material) and dispose of in accordance to applicable regulations. Report spills / releases as required to appropriate authorities.
Waste Disposal:	Treatment, storage, transportation and disposal must be in accor dance with Federal, Provincial, and local regulations. If discarded in its purchased form, this product is considered a RCRA hazardous waste. It is the responsibility of product user to determine at the time of disposal, whether the material containing the product should be classified as a hazardous waste.
Environmental precautionsl:	Prevent spill from entering municipal sewers, water sources or low lying areas. Advise the Relevant authorities if contaminations have occurred.
Addtitional advice:	Local authorities should be advised if significant spillages cannot be contained.

7. Handling & Storage

Safe handling:	Avoid prolonged repeated skin contact. Avoid ingestion. Avoid inhalation of vapours or mists. Only use in well-ventilated areas. Wash hands thoroughly after handling.
Recommended materials:	For containers, use mild steel, high density polyethylene, high density polypropylene.
Unsuitable materials:	PVC Polyethylene containers should not be exposed to high temperatures because of possible risk of distortion.
Storage information:	Keep in a tightly closed container, store in a cool, dry well-ventilated area. Do not store in unlabelled containers. Do not store near combustible materials or strong oxidising agents. Isolate from incompatible substances. Protect from frost. For containers, use mild steel, high density polyethylene, high density polypropylene.

8. Exposure Control / Personal Protection

Personal Protection Equipment:

Engineering controls:	Use in a well-ventilated area to control airborne concentrations below the exposure guidelines/limits. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Respiratory protetion:	Approved respiratory equipment must be used when mist concentra tions exceed the recommended exposure limits and inhaling of mists and vapours is likely.
Eye protection:	Wear chemical goggles, face shield (if splashing is possible).
Skin and body protection:	Personal protection equipment (PPE) should meet recommended national standards. Select gloves tested to national standards. When prolonged or frequent repeated contact occurs, Nitrile gloves may be suitable (Breakthrough time of >240 minutes). Use of impervious apron or chemical suit and chemical resistant boots are recommended.

9. Physical and Chemical Properties

Appearance:	Liquid
Colour:	Green
Odour:	Petroleum odour (slight)
Water solubility:	Negligible
pH:	N/A
Flash point:	38°C
Upper Flame Limit (%):	7.2% (V)
Lower Flame Limit (%):	1.0% (V)
Density:	0.830 g/cm3 @ 20°C (ASTM D-4052)
Pour Point:	No data available

10. Stability & Reactivity

Stability:	Stable.
Chemical stability:	No hazardous reaction is expected when handled and stored according to provisions.
Possibility of hazardous GHS reactions:	Not expected to be explosive, Self-Reactive, Self-Heating or an organic peroxide under US definition(s).
Stability:	Stable under normal conditions of use.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Materials to avoid:	Strong oxidising agents.
Hazardous decomposition products:	N/A

11. Toxicological Information

Acute oral toxicity:	Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.
Acute dermal toxicity:	Frequent or prolonged contact may irritate and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.
Acute inhalation toxicity:	High vapour concentrations are irritating to the eye and respiratory track, and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system and death effects.
Skin irritation:	May cause skin sensitization and dermatitis.
Eye irritation:	Expected to be a risk of serious damage to eyes.

Repeated Dose Toxicity

Toxicity to reproduction:	Not expected to be a developmental toxicant.
Mutagenicity:	Not expected to be mutagenic.
Cardinogenicity:	Not expected to be carcinogenic.

12. Ecological Information

Acute toxicity:	Expected to be harmful. Toxic to fish. Toxic to aquatic organisms.
Persistence & Degradability:	Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation:	Contains components with the potential to bioaccumulate.
Biodegradability:	Not readily biodegradable.
Additional information:	Not expected to have ozone depletion potential, photochemical ozone creation or global warming potential.

13. Disposal Considerations

Waste disposal:	It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations
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. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Other regulation:	Disposal of should be in accordance with applicable regional, nation al, and local laws and regulations. EU Waste Disposal Code (EXC): 07 01 01 aqueous washing liquids and mother liquors.

14. Transport Information

Shipping name:	Petroleum Distillates, n.o.s., Contains (Petroleum Distillates)
Hazard Class:	3
Packaging group:	III
Letter:	F (Highly flammable)

15. Regulatory Information

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

SARA SECTION 313:	Yes
ACUTE:	Yes
CHRONIC:	Yes
FIRE:	Yes
PRESSURE:	No
REACTIVE:	No
CLEAN WATER ACT:	None
IMDG:	UN1268, Petroleum Distillates, N.O.S. Contains (Petroleum Distil lates), 3, PG III. EMS-No: F-E S-E
Marine Pollutant:	Yes
IATA:	UN1268, Petroleum Distillates, N.O.S. Contains (Petroleum Distil lates), 3, PG III

16. Other Information

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.

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