

**Material Safety Data Sheet:**

Engol Water Based Degreaser

**1. Product and Company Identification**

Product Name: Engol Water Based Degreaser  
Product Use: Cleaning / 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**

HAZARDOUS SUBSTANCE: Non-dangerous goods.  
Classified as hazardous according to criteria in the hazardous substances (Minimum Degrees Classified Hazard) Regulations 2001.  
Not classified as dangerous goods for transport, according to New Zealand 5433:2007 - Transport of dangerous goods on land.

Hazardous Substances: 6.5B, 3.1D, 9.1C 8.3A, 6.1D, 6.9B, 9.1D  
Classification  
GHS Classification: Flammable Liquids - Category 4  
Acute Toxicity - Category 4  
Skin Sensitization - Category 1  
Serious Eye damage/Irritation - Category 1  
Specific Target Organ Systemic Toxicity (Repeated Exposure) - Category 2  
Aquatic Toxicity (Acute) - Category 2  
Aquatic Toxicity (Chronic) - Category 3

GHS Hazard Statements: Physical Hazard - Combustible Liquid.  
Health Hazard - Harmful if swallowed.

**GHS Precautionary Statements**

- Keep away from heat, sparks, open flames & hot surfaces.
- Wear protective gloves & clothing and eye & face protection.
- Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
- Avoid inhaling fumes, mists, vapours or fine spray.

**Potential Health Effects**

Skin irritation: May cause an allergic skin reaction.  
Eye irritation: Causes serious eye damage.  
Ingestion: May cause damage to organs or organ systems through repeated and prolonged exposure.  
Potential environmental effects: Harmful to aquatic life with long lasting effects. Toxic to aquatic life.

See section 11 for further health effects/toxological data.

### 3. Composition/Information on Ingredients

Chemical Name	CAS-No	Identification No	Concentration
2-Butoxy Ethanol	111-76-2	203-905-0	10-20%
Sodium Xylene Sulphonate	1330-72-7	215-090-9	1-3%
Ethoxylated C12-C15 Alcohols	68131-39-5	500-195-7	5-20%

See section 8 for further Exposure limits (if applicable)

### 4. First Aid Measures

Inhalation:	Remove from further exposure. If respiratory irritation, nausea, dizziness, or unconsciousness occurs, seek medical assistance immediately.
Skin Contact:	Remove contaminated clothing. Cleanse with hand cleaner, soap and water. Launder contaminated clothing before reuse.
Eye Contact:	DO NOT DELAY. Flush eyes with copious amounts and obtain medical assistance immediately.
Ingestion:	Wash out mouth with water and obtain immediate medical attention.
Important Symptoms:	Allergic reaction signs and symptoms may include itching and/or a rash. The undiluted product & Effects 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:	Foam, water spray, 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 for Firefighters:	Self-contained breathing apparatus.
Unusual fire and explosive Hazard:	None
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. Accidental Release Measures

Personal precautions:	Avoid contact with skin, eyes and clothing.
Procedure if material is released or spilled	Report spills/releases as required to appropriate authorities.
Methods for cleaning up: and containment	Absorb sing wet earth or wet sand. Shovel up with spark resistant utensils for later disposal. Dispose at an approved facility in accordance with laws and 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.

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## 7. Handling and 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:	Do not store in unlabelled containers. Do not store near combustible materials or strong oxidising agents. Protect from frost. For containers, use mild steel, high density polyethylene, high density polypropylene.

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## 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 protection:	Approved respiratory equipment must be used when mist concentrations exceed the recommended exposure limits and inhaling of mists and vapours is likely.
Eye protection:	If splashing with liquid is possible, chemical type goggles should be worn.
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 (Break through time of >240 minutes).

## 9. Physical and Chemical Properties

Appearance:	Liquid
Colour:	Orange
Odour:	Characteristic
Water Solubility:	Completely miscible
pH:	12.5
Flash Point:	Non
Density:	1.090 g/cm <sup>3</sup> @ 20°C (ASTM D-4052)
Pour Point:	No data available
Aluminium Compatibility:	Non-compatible

## 10. Stability and Reactivity

Stability:	Stable.
Chemical Stability:	No hazardous reaction is expected when handled and stored according to provisions.
Possibility of hazardous:	Reacts with strong oxidising agents.
Stability:	Stable under normal conditions of use.
Conditions to avoid:	Extremes of temperature and direct sunlight.
Materials to avoid:	Strong oxidising agents.
Hazardous Decomposition:	Not applicable.
Products	

## 11. Toxicological Information

Acute oral toxicity:	Harmful when swallowed. LD <sub>50</sub> > 200 - 2000 mg/kg.
Acute Dermal Toxicity:	LD > 5000 mg/kg.
Acute Inhalation Toxicity:	Low toxicity.
Aspiration:	Not expected to be an aspiration hazard.
Skin Irritation:	May cause skin sensitization.
Eye Irritation:	Expected to be a risk of serious damage to eyes.
Repeated Dose Toxicity:	Data not available.
Toxicity to reproduction:	Not expected to be a developmental toxicant.
Mutagenicity:	Not expected to be mutagenic.
Carcinogenicity:	Not expected to be carcinogenic.

## 12. Ecological Information

Acute Toxicity:	Expected to be harmful. Expected to be harmful: LL/LE/IL 10-100 mg/l.
Mobility:	Dissolves in water. Large volumes may penetrate soil and could contaminate groundwater. Liquid under most environmental conditions.
Persistence & Degradability:	Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
Bioaccumulation:	Not expected to bio-accumulate significantly.
Biodegradability:	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 regulations:	Disposal of should be in accordance with applicable regional, national, and local laws and regulations. EU Waste Disposal Code (EXC): 07 01 01 aqueous washing liquids and mother liquors.

### 14. Transportation Information

NZS 5433: 2007:	This material is not classified as dangerous according NZS 5433: 2007.
IMDG:	This material is not classified as dangerous under IMDG Regulations.
IATA (Country variations: may apply)	This material is not classified as dangerous under IATA Regulations.

### 15. Toxicological Information

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

HSNO Approval Number:	HSR002519
EINCS:	All components listed or polymer exempt.
TSCA:	Not established

### 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.