



# Material Safety Data Sheet

Page 1 of 6

Issue date: August 2010

## Messamol Grease

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** Messamol Grease

**Synonym:** None.

**Use:** Polyurethane elastomer additive.

**Era Polymers Pty Ltd**  
25-27 Green Street  
Banksmeadow NSW 2019  
Australia  
**Ph: +61 2 9666 3788**  
**Fax: +61 2 9666 4805**

**Emergency Advice All Hours:**  
Technical Manager +61 2 9666 3788

### 2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

**Hazard Category:** None allocated

**Hazard Classification:** NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOOD

#### RISK PHRASES

None allocated

#### SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S45 In case of accident or if you feel unwell, contact a doctor immediately and show this container or label.

**Poison Schedule:** None allocated [Aust].

#### Warning Statement:

Avoid contact with skin and eyes.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE NAME	Proportion	CAS Number
ALKYL SULPHONIC ACID ESTER OF PHENOL	Greater than 60%	Proprietary
Phenol	<0.0025%	108-95-2

All other ingredients not hazardous according to NOHSC Criteria.

### 4. FIRST AID MEASURES

#### Swallowed:

If swallowed, DO NOT induce vomiting. If person is conscious rinse mouth out with water. Seek medical attention immediately.

#### Eye:

If material is splashed into eyes, immediately, flush with plenty of water for 15 minutes, ensuring eyelids are held open. Seek medical attention.

#### Skin:



# Material Safety Data Sheet

Page 2 of 6

Issue date: August 2010

## Messamol Grease

If material is splashed onto the skin, remove any contaminated clothing and wash skin thoroughly with water and soap. Flush skin with water. Seek medical attention if irritation persists after washing.

### **Inhaled:**

Remove victim to fresh air. If there is difficulty breathing, seek medical attention immediately.

### **First Aid Facilities:**

Eye wash fountain, safety shower and normal washroom facilities.

### **Advice to Doctor:**

Treat symptomatically.

**In case of poisoning, contact Poisons Information Centre**

**In Australia call Tel: 131126**

**In New Zealand Tel: 034747000**

## 5. FIRE-FIGHTING MEASURES

### **Fire/Explosion Hazard**

If safe to do so, move undamaged containers from fire area.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposes on heating emitting noxious fumes including carbon dioxide, carbon monoxide, sulphur dioxide and phenol.

**FIRE FIGHTING PROCEDURES:** Fire fighters must wear Self-Contained Breathing Apparatus (SCBA). Full protective clothing is also recommended.

**EXTINGUISHING MEDIA:** Use extinguishing media suitable for surrounding fire situation. Use foam, water spray (fog), CO<sub>2</sub> or dry powder. Use water spray to cool fire-exposed containers and for large fires.

**HAZCHEM CODE:** None allocated [Aust]

### **FLAMMABILITY**

This product is not flammable.

## 6. ACCIDENTAL RELEASE MEASURES

Material may be slippery when spilt. Walk cautiously. Ventilate area. Wear protective equipment to prevent skin and eye contact, as outlined in Section 8 of this Material Safety Data Sheet. Bund area using sand or soil - to prevent run off into drains and waterways. Do not empty into drains or waterways. Use absorbent (soil, sand, vermiculite or other inert material). Collect and seal in properly labelled, sealable containers for disposal.

## 7. HANDLING AND STORAGE

Store in a cool, dry place and out of direct sunlight. Store away from sources of heat or ignition. Store away from oxidising agents. Keep containers closed when not using the product. Store in original packages as approved by manufacturer. Ensure adequate ventilation or exhaust ventilation in the working area. Purge with nitrogen and close container when not in use. Storage period of 24 months. Do not eat, drink or smoke in the workplace.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Standards**

No exposure standards are available for this product, however, the following exposure standards have been assigned by [NOHSC] to the following components of the product:

### **ALKYL SULPHONIC ACID ESTER OF PHENOL**

No Exposure details available

### **Engineering Controls**

Maintain adequate ventilation at all times. In most circumstances natural ventilation systems are adequate unless the material is heated, reacted or otherwise changed in some type of chemical reaction, then the use of a local exhaust



# Material Safety Data Sheet

Page 3 of 6

Issue date: August 2010

## Messamol Grease

ventilation system is recommended. If exhaust ventilation is not available or inadequate, use approved respirator to Australian Standards.

### Personal Protection Equipment

**CLOTHING:** Wear suitable protective clothing to prevent skin contact.

**GLOVES:** Wear impervious gloves to prevent skin contact - PVC, nitrile or natural rubber. After contamination with product change gloves immediately, dispose of in accordance to section 13 of this MSDS.

**EYES:** Wear safety glasses with side shields, chemical goggles or face shield to protect eyes.

**RESPIRATORY PROTECTION:** Avoid breathing of vapours/gases/aerosols. Select and use respirators in accordance with AS/NZS 1715/1716. The use of a respirator for organic vapours with disposable or with replaceable filters is recommended. Filter capacity and respirator type depends on exposure levels and type of contaminant. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a Self-Contained Breathing Apparatus (SCBA) with positive pressure air supply complying with AS/NZS 1715 / 1716, or any other acceptable International Standard is recommended.

Avoid inhaling aerosols and vapours. Avoid contact with skin and eyes. Keep away from food and drink stuffs. Do not eat, drink or smoke at work. Wash hands before breaks and at the end of work and use skin protecting ointment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance &amp; Odour:</b>	Light yellow odourless paste.
<b>Initial Boiling Point:</b>	Approximately 200°C @ 13hPa.
<b>Vapour Pressure:</b>	Below 0.0001 hPa @ 20°C.
<b>Density:</b>	1.04 - 1.07 g/cm <sup>3</sup> @ 20°C (DIN 51757).
<b>Flash Point:</b>	Approximately 225°C (ISO 2592).
<b>Flammability Limits:</b>	Not determined.
<b>Solubility in Water:</b>	0.002 g/L @ 20°C.

### Other Properties:

Setting Point:	Approximately -32°C (ISO 3016).
Partition Coefficient:	log P octanol/water = above 6
Ignition Temperature:	Approximately 425°C (DIN 51794).

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable under normal conditions of use.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Decomposition begins at 200C.

Emits noxious smoke and fumes when heated to decomposition. These include sulphur dioxide and phenol.

### HAZARDOUS POLYMERIZATION:

Will not occur under normal conditions of use.

### INCOMPATIBILITIES:

Strong alkalis, acids, oxidizing agents.

### CONDITIONS TO AVOID:

Heat, flames, ignition sources and incompatibles.

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected, if the product is handled in accordance with this Material Safety Data Sheet and the product label. Symptoms and effects that may arise if the product is mishandled and overexposure occurs are:

### ACUTE HEALTH EFFECTS:

**Swallowed:**



# Material Safety Data Sheet

Page 4 of 6

Issue date: August 2010

## Messamol Grease

May cause irritation to mouth, throat and stomach with effects including mucous build up, irritation to the tongue and lips and pains in the stomach, which may lead to nausea, vomiting and diarrhoea.

### Eye:

May cause irritation to the eyes, with effects including: tearing, pain, stinging and blurred vision.

### Skin:

May cause irritation to the skin, with effects including: redness and itchiness.

### Inhaled:

May cause irritation to the nose, throat and respiratory system with effects including: dizziness, headache and loss of co-ordination.

### Chronic:

There is no information available for this product.

### Toxicological Data:

Acute toxicity:

LD50 (oral, rat) > 5 000 mg/kg

LD50 (dermal rat) > 1 000 mg/kg

Irritation:

Eyes (rabbit): no effect.

Skin (rabbit): no effect.

Skin (human, 24 hour exposure): no effect.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity:

Fish toxicity:

LC50 (Brachydanio rerio, 96 hours): 100 mg/L

Daphnia Toxicity:

EC50 (Daphnia magna, 48 hours): > 1 000 mg/L

Acute toxicity for algae:

EC50 (Green algae (Scenedesmus subspicatus), 72 hours): > 10 000 mg/L

Inhibition of activity of waste water bacteria:

50 % - inhibitory effects: > 10 000 mg/L

Method: Respiratory inhibition of activated sludge organisms according to D. Brown et al., Chemosphere, 10 (3), 245-261 (1981). In conformance with OECD Guideline 209.

### Mobility:

There is no information available for this product.

### Persistence / Degradability:

Biological elimination: 31%

MITI test (OECD Guideline 301C), 28 days.

### Chemical Fate Information:

Water pollution class (WGK classification in accordance with the German Water Resources Act) : 1 - Slightly hazardous to water.

Product may add with maximum 3% to the AOX-value (Organically bound chlorine) of the sewerage. (DIN EN 1485).

This product does not contain heavy metals in concentrations of concern for waste water.

This product does not release nitrogen which can contribute to eutrophication.





# Material Safety Data Sheet

Page 6 of 6

Issue date: August 2010

## Messamol Grease

NIOSH - National Institute for Occupational Safety and Health [US]

AS/NZS 1715 - Selection, use and maintenance of respiratory protective devices. [Aust/NZ]

AS/NZS 1716 - Respiratory protective devices. [Aust/NZ]

IATA - International Aviation Transport Authority [Int]

ICAO - International Civil Aviation Organization [Int]

IMO - International Maritime Organisation. [Int]

IMDG - International Maritime Dangerous Goods [Int]

United Nations Recommendations for the Transport of Dangerous Goods and Globally Harmonized System for the classification and labelling of Chemicals. [Int]

EU - European Union

[Aust/NZ] = Australian New Zealand

[Int] = International

[US] = United States of America

Removal of the heading of *Poison Schedule [Aust]*, in section 3 and 15 of this Material Safety Data Sheet (MSDS) makes this a valid health and safety document in other international jurisdictions/countries. For full compliance please contact your Federal, State or Local regulators for further information.

### **Disclaimer**

This MSDS summarises our best knowledge of the health and safety hazard information available on the product and the measures to be used to handle and use the product safely. Each user should read this MSDS and consider the information in connection with the way the product is intended to be handled or used.

### **Principal References:**

Information supplied by manufacturer, reference sources including the public domain.

**END OF MSDS**