



# SAFETY DATA SHEET

GUARDIAN {FROM BATCH NO. 0263825}

Page 1

Issued: 24/03/2010

Revision No: 1

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

**Product name:** GUARDIAN {FROM BATCH NO. 0263825}  
**Company name:** Advanced Engineering Ltd  
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## 2. HAZARDS IDENTIFICATION

**Main hazards:** May cause sensitisation by skin contact.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** BIOCIDES, 1-10%  
[Xn] R20/21; [C] R34; [Sens.] R43; [N] R51/53

- BIOCIDES, <1%  
[Xi] R36; [N] R50

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be irritation and redness at the site of contact.  
**Eye contact:** There may be irritation and redness. The eyes may water profusely.  
**Ingestion:** There may be soreness and redness of the mouth and throat.  
**Inhalation:** Exposure may cause coughing or wheezing.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.  
**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
**Ingestion:** Wash out mouth with water. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor.

[cont...]

# SAFETY DATA SHEET

GUARDIAN {FROM BATCH NO. 0263825}

## 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**Exposure hazards:** In combustion emits toxic fumes.

**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**Clean-up procedures:** Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

## 7. HANDLING AND STORAGE

**Handling requirements:** Avoid direct contact with the substance. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed.

**Suitable packaging:** Must only be kept in original packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Hazardous ingredients:** BIOCIDES,,  
WEL (8 hr TWA): 1920 mg/m<sup>3</sup>

**Respirable dust:** BIOCIDES,,  
WEL (8 hr TWA): 1000 ppm

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Safety glasses. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**State:** Liquid

**Colour:** White

**Odour:** Characteristic odour

**Viscosity:** Viscous

**Relative density:** 1.02

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat.

**Materials to avoid:** Strong oxidising agents. Strong acids.

**Haz. decomp. products:** In combustion emits toxic fumes.

**11. TOXICOLOGICAL INFORMATION**

**Hazardous ingredients:** BIOCIDES,  
IHL RAT LC50 0.27 ml/l  
ORL RAT LD50 > 500 mg/kg  
SKN RAT LD50 > 900 mg/kg

- BIOCIDES,,  
ORL RAT LD50 > 5000 mg/kg  
SKN RAT LD50 > 5000 mg/kg

**Chronic toxicity:** May cause sensitisation by skin contact.

**Routes of exposure:** Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

**12. ECOLOGICAL INFORMATION**

**Hazardous ingredients:** BIOCIDES,  
72H IC50 0.084 mg/l  
DAPHNIA 48H EC50 0.42 mg/l  
FISH RAINBOW TROUT 96H LC50 0.03 mg/l

- BIOCIDES,,  
DAPHNIA 48H EC50 0.1 < x < 1.0 mg/l  
FISH 96H LC50 > 1 mg/l

**Mobility:** Soluble in water. Readily absorbed into soil.

**13. DISPOSAL CONSIDERATIONS**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Disposal of packaging:** Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

**14. TRANSPORT INFORMATION****ADR / RID**

**UN no:** Not Classified.

**IMDG / IMO**

**UN no:** Not Classified.

**SAFETY DATA SHEET**  
GUARDIAN {FROM BATCH NO. 0263825}

**IATA / ICAO**

**UN no:** Not Classified.

**15. REGULATORY INFORMATION**

**Hazard symbols:** Irritant.



**Risk phrases:** R43: May cause sensitisation by skin contact.

**Safety phrases:** S1/2: Keep locked up and out of the reach of children.

S24/25: Avoid contact with skin and eyes.

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

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**Precautionary phrases:** Use biocides safely. Always read the label and product information before use.

**Haz. ingredients (label):** BIOCIDES,

**Note:** The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**Risk phrases used in s.3:** R20/21: Harmful by inhalation and in contact with skin.

R34: Causes burns.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R36: Irritating to eyes.

R50: Very toxic to aquatic organisms.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.