



SAFETY DATA SHEET
PURACLEAN

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Issued: 29/01/2009
Revision No: 2

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

Product name: PURACLEAN
Company name: Advanced Engineering Ltd
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2. HAZARDS IDENTIFICATION

Main hazards: May cause heritable genetic damage.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: ETHYLENE OXIDE <1%
EINECS: 200-849-9 CAS: 75-21-8
[T] R45; [T] R46; [F+] R12; [T] R23; [Xi] R36/37/38

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 pain.
Ingestion: Nausea and stomach pain may occur.
Inhalation: Exposure may cause coughing or wheezing. There may be coughing and a sore throat.

4. FIRST AID MEASURES (ACTION)

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Water. Suitable extinguishing media for the surrounding fire should be used.
Exposure hazards: In combustion emits toxic fumes of carbon monoxide. In combustion emits toxic fumes of carbon dioxide.
Protection of fire-fighters: Wear self-contained breathing apparatus.

[cont...]

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to section 8 of SDS for personal protection details. Eliminate all sources of ignition.

7. HANDLING AND STORAGE

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

Storage conditions: Store in cool, well ventilated area.

Suitable packaging: Must only be kept in original packaging.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hazardous ingredients: ETHYLENE OXIDE
WEL (8 hr TWA): 9.2 mg/m³

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

Respiratory protection: Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Colourless

Odour: Barely perceptible odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Oily

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Sources of ignition.

Materials to avoid: Bases. Acids. Strong oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide. In combustion emits toxic fumes of carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Hazardous ingredients: ETHYLENE OXIDE
ORL RAT LD50 72 mg/kg
SCU RAT LD50 187 mg/kg

12. ECOLOGICAL INFORMATION

Mobility: Soluble in water.

Persistence and degradability: No data available.

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Bioaccumulative potential: No data available.

Other adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Disposal operations: D10 Incineration on land.

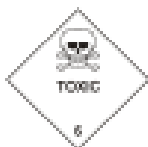
Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

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: 3287	ADR Class: 6.1
Packing group: III	Classification code: T4
Shipping name: TOXIC LIQUID, INORGANIC, N.O.S.	
Labelling: 6.1	Hazard ID no: 60



IMDG / IMO

UN no: 3287	Class: 6.1
Packing group: III	EmS: F-A,S-A
Marine pollutant: .	
Labelling: 6.1	

IATA / ICAO

UN no: 3287	Class: 6.1
Packing group: III	
Packing instructions: 611(P&CA); 618(CAO)	
Labelling: 6.1	

15. REGULATORY INFORMATION

Hazard symbols: Toxic.



Risk phrases: R46: May cause heritable genetic damage.

Safety phrases: S36/37: Wear suitable protective clothing and gloves.

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

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S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53: Avoid exposure - obtain special instructions before use.

Precautionary phrases: Restricted to professional users.

Haz. ingredients (label): ETHYLENE OXIDE

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: R45: May cause cancer.

R46: May cause heritable genetic damage.

R12: Extremely flammable.

R23: Toxic by inhalation.

R36/37/38: Irritating to eyes, respiratory system and skin.

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.