

# SAFETY DATA SHEET

PROTECT

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Revision No: 2

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

**Product name:** PROTECT

**Company name:** Advanced Engineering Ltd

Guardian House

Stroudley Road

Basingstoke

Hampshire

RG24 8NL

United Kingdom

Tel: +44(0)1256460300

Fax: +44(0)1256462266

Emergency tel: +44(0)1256460300

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** TOLUENE 70-90%

EINECS: 203-625-9 CAS: 108-88-3

[F] R11; [Xi] R38; [Xn] R48/20; [Xn] R63; [Xn] R65; [-] R67

## 3. HAZARDS IDENTIFICATION

**Main hazards:** Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

**Other hazards:** In use, may form flammable / explosive vapour-air mixture.

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be irritation and redness at the site of contact. Blistering may occur.

**Eye contact:** There may be irritation and redness. The vision may become blurred.

**Ingestion:** There may be irritation of the throat. There may be vomiting. Inhalation of fumes from the stomach may cause symptoms similar to direct inhalation.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest. Drowsiness or mental confusion may occur. There may be loss of consciousness. There may be congestion of the lungs causing severe shortness of breath.

## 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. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

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**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. Transfer to hospital as soon as possible.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing media:** Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers.

**Exposure hazards:** Highly flammable. Vapour may travel considerable distance to source of ignition and flash back. Forms explosive air-vapour mixture. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

**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. Eliminate all sources of ignition. Turn leaking containers leak-side up to prevent the escape of liquid.

**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:** Ensure there is sufficient ventilation of the area. Smoking is forbidden. Avoid the formation or spread of mists in the air.

**Storage conditions:** Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed.

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

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Hazardous ingredients:** TOLUENE  
WEL (8 hr exposure limit): 191 mg/m<sup>3</sup> WEL (15 min exposure limit): 574 mg/m<sup>3</sup>

**Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition.

**Respiratory protection:** Respiratory protective device with particle filter.

**Hand protection:** PVC gloves. Butyl gloves.

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

**Skin protection:** Protective clothing, PVC.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Liquid

**Colour:** Green-blue

**Odour:** Aromatic

**Evaporation rate:** Slow

**Solubility in water:** Not miscible

**Also soluble in:** Most organic solvents.

**Flammability limits %: lower:** 1.3

**upper:** 7

**Flash point°C:** 4

**Autoflammability°C:** 480

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat. Hot surfaces. Sources of ignition. Moist air.

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

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

## 11. TOXICOLOGICAL INFORMATION

**Hazardous ingredients:** TOLUENE

IVN RAT LD50 1960 mg/kg

ORL MUS LD50 2 gm/kg

ORL RAT LD50 6900 mg/kg

**Chronic toxicity:** Danger of cumulative effects through inhalation.

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

## 12. ECOLOGICAL INFORMATION

**Mobility:** Volatile. Insoluble in water. Floats on water. Readily absorbed into soil.

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

## 13. DISPOSAL CONSIDERATIONS

**Disposal operations:** D10 Incineration on land.

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**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:** 1993

**ADR Class:** 3

**Packing group:** II

**Classification code:** F1

**Shipping name:** FLAMMABLE LIQUID, N.O.S. (TOLUENE)

Labelling: 3

Hazard ID no: 33



## IMDG / IMO

UN no: 1993

Class: 3

Packing group: II

EmS: F-E,S-E

Marine pollutant: .

Labelling: 3

## IATA / ICAO

UN no: 1993

Class: 3

Packing group: II

Packing instructions: 305(P&amp;CA); 307(CAO)

Labelling: 3

## 15. REGULATORY INFORMATION

**Hazard symbols:** Highly flammable.

Harmful.

**Risk phrases:** R11: Highly flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

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

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

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

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

S33: Take precautionary measures against static discharges.

S23: Do not breathe vapour.

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

S16: Keep away from sources of ignition - No smoking.

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**Precautionary phrases:** Restricted to professional users.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**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.2:** R11: Highly flammable.

R38: Irritating to skin.

R48/20: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R63: Possible risk of harm to the unborn child.

R65: Harmful: may cause lung damage if swallowed.

R67: Vapours may cause drowsiness and dizziness.

**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.