

# SAFETY DATA SHEET

OXYGEN

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Revision No: 3

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

**Product name:** OXYGEN  
**CAS number:** 7782-44-7  
**EINECS number:** 231-956-9  
**Index number:** 008-001-00-8  
**Company name:** Advanced Engineering Ltd  
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## 2. HAZARDS IDENTIFICATION

**Main hazards:** Contact with combustible material may cause fire.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

## 4. FIRST AID MEASURES (SYMPTOMS)

**Skin contact:** There may be mild irritation at the site of contact.  
**Eye contact:** There may be irritation and redness.  
**Ingestion:** There may be irritation of the throat.  
**Inhalation:** There may be a feeling of tightness in the chest with shortness of breath.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Wash immediately with plenty of soap and water.  
**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
**Ingestion:** Wash out mouth with water. 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:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.  
**Exposure hazards:** Oxidising. In combustion emits toxic fumes.  
**Protection of fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

[cont...]

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions:** Remove all incompatible materials as outlined in section 10 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Evacuate the area immediately. Mechanically ventilate the spillage area whilst avoiding the formation of explosive concentrations - see section 9 of SDS.

**7. HANDLING AND STORAGE**

**Handling requirements:** Ensure there is sufficient ventilation of the area.

**Storage conditions:** Store in cool, well ventilated area. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS. Keep away from sources of ignition.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

**Hand protection:** Protective gloves.

**Eye protection:** Safety goggles.

**Skin protection:** Protective clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**State:** Gas

**Colour:** Colourless

**Odour:** Odourless

**Oxidising:** Oxidising (by EC criteria)

**Relative density:** 1.1

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions. Stable at room temperature.

**Conditions to avoid:** Heat. Flames.

**Materials to avoid:** Organic materials. Reducing agents.

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

**11. TOXICOLOGICAL INFORMATION**

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

**12. ECOLOGICAL INFORMATION**

**Persistence and degradability:** Biodegradable.

**Bioaccumulative potential:** No bioaccumulation potential.

**Other adverse effects:** Negligible ecotoxicity.

**13. DISPOSAL CONSIDERATIONS**

**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:** 1072**ADR Class:** 2**Classification code:** 10**Shipping name:** OXYGEN, COMPRESSED**Labelling:** 2.2+5.1**Hazard ID no:** 25**IMDG / IMO****UN no:** 1072**Class:** 2.2**EmS:** F-C,S-W**Marine pollutant:** NO**Labelling:** 2.2+5.1**IATA / ICAO****UN no:** 1072**Class:** 2**Subsidiary risk:** 5.1**Packing instructions:** 200**Labelling:** 2.2+5.1**15. REGULATORY INFORMATION****Hazard symbols:** Oxidising.**Risk phrases:** R8: Contact with combustible material may cause fire.**Safety phrases:** S17: Keep away from combustible material.

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

S3/9/49: Keep only in the original container in a cool, well-ventilated place.

**Precautionary phrases:** Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.**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

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the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**16. OTHER INFORMATION**

**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.