

SAFETY DATA SHEET

OXYGEN

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Compilation date: 29/01/2009

Revision date: 22/11/2011

Revision No: 4

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: OXYGEN

CAS number: 7782-44-7

EINECS number: 231-956-9

Index number: 008-001-00-8

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Company name: Advanced Engineering Ltd

Guardian House

Stroudley Road

Basingstoke

Hampshire

RG24 8NL

United Kingdom

Tel: +44(0)1256460300

Fax: +44(0)1256462266

Email: sales@advancedengineering.co.uk

1.4. Emergency telephone number

Emergency tel: +44(0)1256854318

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: O: R8

Classification under CLP: Ox. Gas 1: H270

Most important adverse effects: Contact with combustible material may cause fire.

2.2. Label elements

Label elements under CLP:

Hazard statements: * H270: May cause or intensify fire; oxidiser.

Signal words: * Danger

Hazard pictograms: * GHS03: Flame over circle



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Precautionary statements: * P220: away from.
P244: Keep reduction valves free from grease and oil.
P370+376: In case of fire: Stop leak if safe to do so.
P403: Store in a well-ventilated place.

Label elements under CHIP:

Hazard symbols: Oxidising.



Risk phrases: R8: Contact with combustible material may cause fire.

Safety phrases: * S17: Keep away from combustible material.

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

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: OXYGEN

Contains: *

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: * Not applicable.

Eye contact: * Not applicable.

Ingestion: * Not applicable.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Not applicable.

Eye contact: Not applicable.

Ingestion: Not applicable.

Inhalation: Not applicable.

Delayed / immediate effects: Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: * Not applicable.

Section 5: Fire-fighting measures

[cont...]

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5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Oxidising. In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Evacuate the area immediately. Mechanically ventilate the spillage area whilst avoiding the formation of explosive concentrations - see section 9 of SDS. Eliminate all sources of ignition. Remove all incompatible materials as outlined in section 10 of SDS.

6.2. Environmental precautions

Environmental precautions: Not applicable.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Not applicable.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: * Ensure there is exhaust ventilation of the area. Smoking is forbidden.

7.2. Conditions for safe storage, including any incompatibilities

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.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: Not applicable.

8.2. Exposure controls

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

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

[cont...]

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Hand protection: Protective gloves.

Eye protection: Safety goggles.

Skin protection: Protective clothing.

Environmental: No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Gas

Colour: Colourless

Odour: Odourless

Oxidising: Oxidising (by EC criteria)

Boiling point/range°C: -183°C

Melting point/range°C: -219°C

Relative density: 1.1

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: * Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: * Hazardous reactions will not occur under normal transport or storage conditions.
Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat. Flames.

10.5. Incompatible materials

Materials to avoid: Reducing agents. Organic materials.

10.6. Hazardous decomposition products

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

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: Not applicable.

Symptoms / routes of exposure

Skin contact: Not applicable.

Eye contact: Not applicable.

[cont...]

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Ingestion: Not applicable.

Inhalation: Not applicable.

Delayed / immediate effects: Not applicable.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: Not applicable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Not applicable.

12.4. Mobility in soil

Mobility: Not applicable.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Not applicable.

Section 13: Disposal considerations

13.1. Waste treatment methods

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

Recovery operations: * Recovery of components used for pollution abatement.

Disposal of packaging: * Retain for recovery.

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

Section 14: Transport information

14.1. UN number

UN number: UN1072

14.2. UN proper shipping name

Shipping name: OXYGEN, COMPRESSED

14.3. Transport hazard class(es)

Transport class: 2 (5.1)

[cont...]

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14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H270: May cause or intensify fire; oxidiser.

R8: Contact with combustible material may cause fire.

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.

