SAFETY DATA SHEET

Oxygen

PRODUCT: OXYGEN MSDS NR: EIGC-OXY-017 VERSION: 2.01 DATE: 1/8/04 PAGE: 1/2

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name Oxygen
Chemical formula O₂
Emergency see below
phone Nos

2 HAZARDS IDENTIFICATION


3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation Substance
Components/Impurities Contains no other components or impurities which will influence the classification of the product.
CAS Nr 07782-44-7

4 PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight 32
Melting point -219°C
Boiling point -183°C
Critical temperature -118°C
Relative density, gas 1.1 (air=1)
Relative density, liquid Not applicable
Vapour Pressure 20°C Not applicable
Solubility mg/l water 39 mg/l
Appearance/Colour Colourless gas
Odour None
Other data Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
Autoignition temperature Not applicable
Flammability range Oxidiser

5 STABILITY AND REACTIVITY

May react violently with combustible materials. May react violently with reducing agents. Violently oxidises organic material.

6 TOXICOLOGICAL INFORMATION

No known toxicological effects from this product.

7 ECOLOGICAL INFORMATION

No known ecological damage caused by this product.

8 HANDLING AND STORAGE

Use no oil or grease. Open valve slowly to avoid pressure shock. Segregate from flammable gases and other flammable materials in store. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Keep away from ignition sources (including static discharges). Refer to supplier's container handling instructions. Keep container below 50°C in a well ventilated place.

9 EXPOSURE CONTROLS/PERSONAL PROTECTION

Do not smoke while handling product. Avoid oxygen rich (>21%) atmospheres. Ensure adequate ventilation.

10 FIRST AID MEASURES

Inhalation Not hazardous
Ingestion Ingestion is not considered a potential route of exposure.

11 FIRE FIGHTING MEASURES

Specific hazards Supports combustion. Exposure to fire may cause containers to rupture/explose. Non flammable
Hazardous combustion products None
Suitable extinguishing media All known extinguishants can be used.
Specific methods If possible, stop flow of product. Move away from the container and cool with water from a protected position.
Special protective equipment for fire fighters None

12 ACCIDENTAL RELEASE MEASURES

Personal precautions Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources.
Environmental precautions Try to stop release. Prevent from entering sewers, basements and works, or any place where its accumulation can be dangerous.
Clean up methods Ventilate area.

13 DISPOSAL CONSIDERATIONS

To atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required.
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14 TRANSPORT INFORMATION

<table>
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<tr>
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<td></td>
<td>Label 05: fire intensifying risk.</td>
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**Other transport information**

Avoid transport on vehicles where the load space is not separated from the driver’s compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured and:
- cylinder valve is closed and not leaking
- valve outlet cap nut or plug (where provided) is correctly fitted
- valve protection device (where provided) is correctly fitted
- adequate ventilation
- compliance with applicable regulations.

15 REGULATORY INFORMATION

<table>
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<th>Number in Annex I</th>
<th>Not included in Annex I of Dir 67/548</th>
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<td>Label 05: fire intensifying risk.</td>
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</table>

**Risk phrases**

- R8 Contact with combustible material may cause fire.

**Safety phrases**

- S9 Keep container in well ventilated place.
- S17 Keep away from combustible material.

16 OTHER INFORMATION

Ensure all national/local regulations are observed. Ensure operators understand the hazard of oxygen enrichment. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.