

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

Product name: Oxygen Compressed

Chemical formula: O₂

NAME AND ADDRESS: Om Air Special Gases
Khasra No.96, Khewat N0.352/640, Kila No.4,
Faridabad Haryana India

HAZARDS IDENTIFICATION Classification of the substance .

Classification acc. to Regulation (EC) No 1272/2008/EC (CLP/GHS)

Press. Gas (Compressed gas) - Contains gas under pressure; may explode if heated.
Ox. Gas 1 - May cause or intensify fire; oxidiser.

Classification acc. to Directive 67/548/EEC & 1999/45/EC

O; R8
Contact with combustible material may cause fire.

Risk advice to man and the environment

Compressed gas.

Label Elements

- Labelling Pictograms



-Signal word

Danger

- Hazard Statements

H280 Contains gas under pressure; may explode if heated.

H270 May cause or intensify fire; oxidiser.

- Precautionary Statements

Precautionary Statement Prevention

P220 Keep away from combustible materials.

P244 Keep valves and fittings free from oil and grease.

Precautionary Statement Response

P370 + P376 In case of fire: Stop leak if safe to do so.

Precautionary Statement Storage

P403 Store in a well-ventilated place.

Precautionary Statement Disposal

None.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Substance.

Components/Impurities

Oxygen, Compressed

CAS No: 7782-44-7

Index-Nr.: 008-001-00-8

EC No (from EINECS) : 231-956-

9 REACH Registration number:

Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.

Contains no other components or impurities which will influence the classification of the product.

3. FIRST AID MEASURES

Inhalation:

Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped.

Ingestion:

Ingestion is not considered a potential route of exposure

4. FIRE FIGHTING MEASURES

Specific hazards : Exposure to fire may cause containers to rupture/explode. Supports combustion. Non flammable.

Hazardous combustion products : None.

Suitable extinguishing media : All known extinguishants can be used.

Specific methods : If possible, stop flow of product. Move container away or cool with water from a protected position.

Special protective equipment for fire fighters : Normal firefighters' equipment consists of an appropriate SCBA (open-circuit positive pressure compressed air type) in combination with fire kit. Equipment and clothing to the following standards will provide a suitable level of protection for firefighters

5. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate area. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Eliminate ignition sources. Monitor concentration of released product.

Environmental precautions: Try to stop release.

Clean up methods : Ventilate area.

6. HANDLING AND STORAGE

Handling

Use no oil or grease. Suck back of water into the container must be prevented. 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 handling instructions. Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service. Use only with equipment cleaned for oxygen service and rated for cylinder pressure. Do not smoke while handling product. Only experienced and properly instructed persons should handle gases under pressure. Protect containers from physical damage; do not drag, roll, slide or drop. Never use direct flame or electrical heating devices to raise the pressure of a container. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Ensure the complete gas system has been (or is regularly) checked for leaks before use. If user experiences any difficulty operating container valve discontinue use and contact supplier. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminants particularly oil and water. Never attempt to transfer gases from one container to another. Use only oxygen approved lubricants and oxygen approved sealings. Keep equipment free from oil and grease. Open valve slowly to avoid pressure shock. Do not allow backfeed into the container. The substance must be handled in accordance with good industrial hygiene and safety procedures. Lines, which are attached directly to oxygen cylinders or oxygen bundles, should consist of metal. Hoses from rubber or plastics are fire-endangered with oxygen pressures over 30 bar.

Storage

Secure cylinders to prevent them from falling. Segregate from flammable gases and other flammable materials in store. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Cylinders should be stored in the vertical position and properly secured to prevent falling over. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials. Observe "Technische Regeln Druckgase (TRG) 280 Ziffer 5"

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit value

Value Type	Value	Note
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Respiratory protection: Not required

Hand Protection Advice: Wear working gloves and safety shoes while handling containers

Personal protection: Do not smoke while handling product. Wear suitable hand, body and head protection. Wear goggles with suitable filter lenses when use is cutting/welding. Avoid oxygen rich (>23%) atmospheres. Ensure adequate ventilation.

8. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance/Colour: Colourless gas.

Odour: None

Important information on environment, health and safety Molecular weight: 32 g/mol

Melting point: -219 °C

Boiling point: -183 °C

Critical temperature: -118 °C

Flash point: Not applicable for gases and gas mixtures.

Autoignition temperature: Not Applicable

Flammability range: Non Flammable

Relative density, gas (Air=1): 1,1

Relative density, liquid (Water=1): 1,1

Vapour Pressure 20 °C: Not applicable

Solubility in water: 39 mg/l

Other data

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

9. STABILITY AND REACTIVITY

Stability and reactivity : May react violently with combustible materials. May react violently with reducing agents. Violently oxidises organic material.

Hazardous decomposition products

Statements on decomposition

Under normal conditions of storage and use, hazardous decomposition products should not be produced

10. TOXICOLOGICAL INFORMATION

General: No known toxicological effects from this product.

Acute toxicity: After the "conventional computation method of the EC/1999/45" classified

11. ECOLOGICAL INFORMATION

General: No ecological damage caused by this product.

12. DISPOSAL CONSIDERATIONS

General : Do not discharge into any place where its accumulation could be dangerous. Contact supplier if guidance is required. Vent to atmosphere in a well ventilated place. Consult supplier for specific recommendations. Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods.

Gases in pressure containers (including halons) containing dangerous substances.

EWC Nr. 16 05 04*

13. REGULATORY INFORMATION

Further national regulations :-

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 94/9/EC on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

Directive 89/686/EEC on personal protective equipment

Council Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

Directive 97/23/EC on the approximation of the laws of the Member States concerning pressure equipment.

Water pollution class: Not polluting to waters according to VwVwS from 27.07.2005.

TA-Luft: Not classified according to TA-Luft.



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14. OTHER INFORMATION

Ensure operators understand the flammability hazard. The hazard of asphyxiation is often overlooked and must be stressed during operator training. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Advice

To prepare this document, help of various source of information available over electronic media has been taken for the sake of safety of the mankind and the environment. Whilst proper care has been taken during preparation of this document, no legal liability of any kind is accepted for any Injury or Damage resulting from the use of the product or information. We do not claim any type of ownership/correctness of this document or the information contained in it.