



2.2 : Non flammable,
non toxic gas.



5.1 : Oxidising
substances.

DANGER



1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier	
Trade Name	: ALbee™ Flame O ₂
SDS Nr	: SDS_097A_CLP
Chemical Description	: Oxygen CAS No :007782-44-7 EC No :231-956-9 Index No :008-001-00-8
Chemical Formula	: O ₂
Registration-No.	: Listed in Annex IV / V REACH, exempted from registration.
Use	: Industrial and professional. Perform risk assessment prior to use.
Company Identification	: Air Liquide UK Limited Station Road Coleshill Birmingham B46 1JY United Kingdom
E-Mail Address (competent person)	: genenq.ALUK@airliquide.com - F.A.O. David Hopper
Emergency Telephone Number	: 01675 462695

2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Hazard Class and Category Code
Regulation EC 1272/2008 (CLP)

- Physical Hazards : Oxidising gases - Category 1 - Danger (H270)
Gases under pressure - Compressed gas - Warning (H280)

Classification EC 67/548 or EC 1999/45 : O; R8

Label Elements

Labelling Regulation EC 1272/2008 (CLP)

- Hazard Pictograms



- Hazard Pictograms Code : GHS03 - GHS04
- Signal Word : Danger
- Hazard Statements : H270 : May cause or intensify fire; oxidiser.
H280 : Contains gas under pressure; may explode if heated.

- Precautionary Statements

- Prevention

: P244 : Keep valves and fittings free from oil and grease.
P220 : Keep/Store away from clothing/.../combustible materials.
P370+P376 : In case of fire: Stop leak if safe to do so.
P403 : Store in a well-ventilated place.

- Response

- Storage

Labelling EC 67/548 or EC 1999/45
Symbol(s)

: O : Oxidising 

R Phrase(s)

: R8 : Contact with combustible material may cause fire.

S Phrase(s)

: S17 : Keep away from combustible material.

Other Hazards

Other Hazards : None.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation	: Substance.						Classification
Substance Name	Contents	CAS No	EC No	Index No	Registration No		
Oxygen	: 100 %	7782-44-7	231-956-9	008-001-00-8	NOTE 1	O; R8 Ox. Gas 1 (H270) Ox. Gas 1 (H270) Press. Gas (H280)	

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

Note 1: Listed in Annex IV / V REACH, exempted from registration.

Note 2:

Full text of R-phrases see chapter 16.

4 FIRST AID MEASURES

First aid measures

- Inhalation

: Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.
Remove victim to uncontaminated area.

5 FIRE-FIGHTING MEASURES

Specific Hazards

: Exposure to fire may cause containers to rupture/explode.
Supports combustion.

Hazardous Combustion Products

: None.

Extinguishing Media

- 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 Fighter

: None.

6 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 workpits, or any place where its accumulation can be dangerous.

Clean Up Methods

: Ventilate area.

7 HANDLING AND STORAGE

Handling

: Use no oil or grease.
Open valve slowly to avoid pressure shock.
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.

Storage

: Segregate from flammable gases and other flammable materials in store.
Keep container below 50°C in a well ventilated place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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 (>21%) atmospheres.
Ensure adequate ventilation.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State at 20°C

: Gas.

Colour

: Colourless.

Odour

: No odour warning properties.

Molecular Weight

: 32

Melting Point [°C]

: -219

Boiling Point [°C]

: -183

Critical Temperature [°C]

: -118

Vapour Pressure [20°C]

: Not applicable.

Relative Density, Gas (air=1)

: 1.1

Relative Density, Liquid (water=1)

: 1.1

Solubility in Water [mg/l]

: 39

Flammability Range [vol% in air]	: Oxidiser.
Auto-ignition Temperature [°C]	: Not applicable.
Other Data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

10 STABILITY AND REACTIVITY

Hazardous Decomposition Products	: None.
Incompatible Materials	: May react violently with combustible materials. May react violently with reducing agents. Violently oxidises organic material.
Conditions to Avoid	: Keep equipment free from oil and grease. : Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bars) oxygen lines in case of combustion.

11 TOXICOLOGICAL INFORMATION

Toxicity Information	: No known toxicological effects from this product.
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12 ECOLOGICAL INFORMATION

Ecological Effects Information	: No ecological damage caused by this product.
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13 DISPOSAL CONSIDERATIONS

General	: 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

UN Number	: 1072
• Labelling ADR, IMDG, IATA	



: 5.1	: Oxidising substances.
: 2.2	: Non flammable, non toxic gas.

Land Transport

ADR/RID	
H.I. nr	: 25
UN Proper Shipping Name	: OXYGEN, COMPRESSED
Transport Hazard Class(es)	: 2
- ADR/RID Classification Code	: 1 O
- Packing Instruction(s) - General	: P200
- Tunnel Restrictions	: E : Passage forbidden through tunnels of category E.

Sea Transport

- IMO-IMDG Code	
• Proper Shipping Name	: OXYGEN, COMPRESSED
• Class	: 2.2
- IMO Packing group	: P200
- Emergency Schedule (EmS) - Fire	: F-C
- Emergency Schedule (EmS) - Spillage	: S-W
- Instructions - Packing	: P200

Air Transport

- ICAO/IATA	
- Proper Shipping Name	: OXYGEN, COMPRESSED
• Class	: 2.2
• Passenger and Cargo Aircraft	
- Packing Instruction	: 200
• Cargo Aircraft Only	
- Packing Instruction	: 200

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 containers are firmly secured.
- Ensure cylinder valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure there is adequate ventilation.
- Compliance with applicable regulations.

15 REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture : Ensure all national/local regulations are observed.
Seveso Regulation 96/82/EC : Listed.

16 OTHER INFORMATION

Ensure operators understand the hazard of oxygen enrichment.

List of full text of R-phrases in Section 3. : R8 : Contact with combustible material may cause fire.

This Safety Data Sheet has been established in accordance with the applicable European Directives and applies to all countries that have translated the Directives in their national laws.

Disclaimer of Liability : 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.

In case of emergency: 01675 462695

