


Section 1: Identification of the substance/ mixture and of the Company

1.1 Identification of the substance or mixture	
IUPAC name	OXYGEN
Synonym	-
CAS n°	7782-44-7
CEE n°	231-856-9
Number of the substance	008-001-00-8
Number of registration	Listed in Annex IV/ V REACH, exempted from registration
1.2 Use of the substance/mixture	
Industrial and professional. Perform risk assessment prior to use.	
1.3 Company identification	
Corporate name	PRODONT-HOLLIGER
Address	La Marnasse
City and Country	63880 OLLIERGUES (France)
Phone number	Tel: +33 (0)4 73 95 56 42
Fax number	Fax: +33 (0)4 73 95 56 99
E-mail address	info@prodont-holliger.com
1.4 Phone number for urgent calls	
Tel: +33 (0)4 73 95 56 42 (working hours)	

Section 2: Classification of the substance and mixture

2.1 Classification of the substance or mixture	
Classification under (EC) Regulation no. 1272/2008:	Ox. gas 1 (Oxidising gas) Press. gas (Gases under pressure)
2.2 Label elements	
GHS Danger symbols:	
Signal word:	Danger
Hazard statements:	H270: May cause or intensify fire; oxidizer. H280: Contains gas under pressure; may explode if heated
Precaution statements	
Prevention	
Response	P244: Keep valves and fittings free from oil and grease
Storage:	P220: Keep away from combustible materials P370+P376: In case of fire: stop leak if safe to do so. P403: Protect from sunlight. Store in a well-ventilated place
2.3 Other hazard	
None	

Section 3: Composition / information on ingredients

3.1 Substance					
IUPAC name	Substance number	CAS number	EINECS number	Concentration	
Oxygen	008-001-00-8	7782-44-7	231-856-9	≥ 99,99%	
Contains no other components or impurities which will influence the classification of the product.					

Section 4: First aid measures

- 4.1 Description of first aid measures
Immediately seek medical advice
- 4.2 Most important symptoms and effects, both acute and delayed
- Skin contact:
Not expected to present a significant skin hazard under anticipated conditions of normal use.
- Eyes contact:
Not expected to present a significant eyes hazard under anticipated conditions of normal use.
- Inhalation:
Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.

Section 5: Fire-fighting measures

- 5.1 Extinguishing media
All known extinguishants can be used.
- 5.2 Special hazards arising from the substance or mixture
Exposure to fire may cause containers to rupture/explode. Supports combustion.
- 5.3 Special protective equipment for fire fighters
In confined space use self-contained breathing apparatus
- 5.4 Advice for fire-fighters
Coordinate fire measure to the surrounding fire. Cool endangered containers with water spray jet from a protected position. Do not empty contaminated fire water into drains. If possible, stop flow of product.

Section 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Evacuated unnecessary personnel.
Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
Ensure adequate air ventilation.
- 6.2 Environmental precautions Try to stop release.
Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous
- 6.3 Methods and material for containment and cleaning up
Ventilated area.

Section 7: Handling and storage

- 7.1 Precautions for safe handling
Do not eat, drink and/or smoke in the working areas or plants .
For container handling, use proper personal protective equipment such as safety shoes and gloves. Do not allow backfeed into the container.
Suck back of water into the container must be prevented.
Use only properly specified equipments which are suitable for this product. Open slowly the valve to avoid pressure blows . Avoid the direct contact of the product.
Handle carefully the contains, thus avoiding violent collisions between them or against other surfaces, as well as falls and other mechanical strains susceptible to damage their integrity/resistance. Contact your supplier if in doubt.
- 7.2 Condition for safe storage, including any incompatibilities
Kept container below 50°C in a well ventilated place. Avoid against collisions.

Section 8: Exposure controls/personal protection

- 8.1 Control parameters
- | | |
|---|---------------|
| 8.1.1 DNEL: Derived no effect level | Not available |
| PNEC: Predicted no effect concentration | Not available |
- 8.2 Exposure controls
- 8.2.1 System under pressure should be regularly checked for leakages. Avoid oxygen rich (>21%) atmospheres. Gas detector should be used when oxidizing gases may be released. Provide adequate general and local exhaust ventilation. Consider work permit system e.g. for maintenance activities
- 8.2.2 Skin/face protection: Use safety glasses and face shield in accordance with EN 166
Hand protection: Use quantlet according to EN 388

Respiratory protection:	No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of release, please refer to the point 6.1
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Section 9: Physical and chimica protections

9.1 Information on basic physical and chemical properties

Appearance	
- Physical state at 20°C/101,3 kPa	Gas
- Colour	Colourless
Flash point	Not applicable for gases
Molecular weight	32 g/mole
Melting point	-219 °C -183 °C
Boiling point	-118 °C
Critical temperature	1,1 39
Relative density, gas (air=1)	No odour warning properties
Solubility in water (mg/l)	Not applicable
Odour	Oxidiser
Auto-ignition temperature	
Oxidising properties	

9.2 Other information

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

Section 10: Stability and reactivity

10.1 Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Violently oxidises organic material

10.4 Conditions to avoid

None under recommended storage and handling conditions (see section 7)

10.5 Incompatible materials

May react violently with combustible materials
May react violently with reducing agents
Keep equipment free from oil and grease

10.6 Hazardous decomposition products

None

Section 11: Toxicological information

11.1 Information of toxicological effects

No known toxicological effects from this product

Section 12: Ecological information

12.1 Toxicity

No known ecological damage caused by this product

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not classified as PBT or vPvB

12.6 Other adverse effects

No data available

Section 13: Disposal considerations
13.1 Waste treatment methods

The waste treatment methods have to be verified everytime with reference to the waste composition, National and EC standards in force. The handling and precautions in case of accidental waste, please refer to the a/m points 6 and 7. Actions or precautions must be verified accordingly to the waste composition.

Section 14: Transport information
14.1 UN Number

UN 1072

14.2 UN proper shipping name

OXYGEN, COMPRESSED

14.3 Transport hazard class

2

14.3 Label

• 2.2 + 5.1

14.4 Packing group

P200

14.5 Sea transport

EMS: F-C, S-W

Proper Shipping name: OXYGEN, COMPRESSED

14.6 Air transport:

Cargo Packing instruction: 200
 Max. quantity: 150kg

Passengers Packing instruction: 200
 Max. quantity: 75 kg

14.7 Environmental hazards

No dangerous for environment.

14.8 Special precautions for users

Avoid transports on vehicle where the loading area is not separated from the cabin.

Assure that the drivers knows the potential dangers of the loading and he is able to operate in case of emergency.

14.9 Transport in bulk according to Annex II of MARPOL 73/78 and IIB code

No applicable


Section 15: Regulatory information
15.1 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.

15.2 Chemical safety assessment

It is not requested a chemical safety report

Section 16: Other information
GENERAL BIBLIOGRAPHY:

1. (EC) Regulation no. 1907/2006 of the European Parliament (REACH)
2. (EC) Regulation no. 1272/2008 of the European Parliament (CLP)
3. ESIS : European chemical Substances Information System

Remark for the User:

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

The information on this sheet is based on the available knowledge at the time of our last revision.

The user must make sure that information is appropriate and complete for the specific product destination.

This document cannot be considered as a warranty for specific properties of the product.

As product use does not fall on our direct control, the user must bear full responsibility for complying with all the rules and regulations in force relating to hygiene and safety. We disclaim any responsibility for improper uses.