

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

UltraOxy

1.1. Product identifier	
Product form	: Substance in a gaseous state.
Trade name SDS code	: UltraOxy : 097A_ULTRAOXY
Other means of identification	: Oxygen
	CAS-No. : 7782-44-7
	EC-No. : 231-956-9
	EC Index-No. : 008-001-00-8
REACH registration No	: Listed in Annex IV / V REACH, exempted from registration.
Chemical formula	: O ₂
1.2. Relevant identified u	uses of the substance or mixture and uses advised against
Relevant identified uses	: Breathable oxygen that can be used in sports and recreation.
Uses advised against	: Not for medical use.
1.3. Details of the supplie	er of the safety data sheet
CER MEDICAL srl	
Torretta, 13	
40012 Calderara di Reno (BO))
T (+39) 051.4148511	correctical com - WWW Ultracyveport com
	<u>cermedical.com</u> - <u>www.ultraoxysport.com</u> person responsible for the SDS : <u>info@cermedical.com</u> - <u>info@ultraoxysport.com</u>
1.4. Emergency telephon	
Emergency telephone number	: (+39) 0522.485054
SECTION 2: Hazards i	
2.1. Classification of the	substance or mixture
	substance or mixture Regulation (EC) No. 1272/2008 [CLP]
Classification according to F	Regulation (EC) No. 1272/2008 [CLP]
Classification according to F Physical hazards	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270
Classification according to F Physical hazards 2.2. Label elements	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270 Gases under pressure : Compressed gas H280
Classification according to F Physical hazards 2.2. Label elements	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270
Classification according to F Physical hazards 2.2. Label elements	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270 Gases under pressure : Compressed gas H280
Classification according to F Physical hazards 2.2. Label elements Labelling according to Regu	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270 Gases under pressure : Compressed gas H280
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP)	Regulation (EC) No. 1272/2008 [CLP] H270 Oxidising Gases, Category 1 H280 Idation (EC) No. 1272/2008 [CLP] H280 Idation (EC) No. 1272/2008 [CLP] Image: Dange
Classification according to F Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP)	Regulation (EC) No. 1272/2008 [CLP] H270 Oxidising Gases, Category 1 H280 Idation (EC) No. 1272/2008 [CLP] Image: Compression of the second secon
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP)	Regulation (EC) No. 1272/2008 [CLP] H270 Gases under pressure : Compressed gas H280 Ilation (EC) No. 1272/2008 [CLP] Image: Comparison of the state
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	Regulation (EC) No. 1272/2008 [CLP] H270 Gases under pressure : Compressed gas H280 Ilation (EC) No. 1272/2008 [CLP] Image: Comparison of the state
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLI	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270 Gases under pressure : Compressed gas H280 Hation (EC) No. 1272/2008 [CLP] : : : : : : : : : : : : :
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLI • Prevention	Regulation (EC) No. 1272/2008 [CLP] H270 Gases under pressure : Compressed gas H280 Inlation (EC) No. 1272/2008 [CLP] Image: Compression of the state of the sta
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Hazard statements (CLP) Precautionary statements (CLI • Prevention • Response • Storage	Regulation (EC) No. 1272/2008 [CLP] H270 Gases under pressure : Compressed gas H280 Ilation (EC) No. 1272/2008 [CLP] Image: Comparison of the state
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLI • Prevention	Regulation (EC) No. 1272/2008 [CLP] H270 Gases under pressure : Compressed gas H280 Hation (EC) No. 1272/2008 [CLP] Image: Cleve and the compression of t
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Hazard statements (CLP) Precautionary statements (CLI • Prevention • Response • Storage	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270 Gases under pressure : Compressed gas H280 Hation (EC) No. 1272/2008 [CLP] Image: Compression (Cle) Image: Cle
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Hazard statements (CLP) Precautionary statements (CLI • Prevention • Response • Storage	Regulation (EC) No. 1272/2008 [CLP] H270 Gases under pressure : Compressed gas H280 Hation (EC) No. 1272/2008 [CLP] Image: Cleve and the compression of t
Classification according to P Physical hazards 2.2. Label elements Labelling according to Regu Hazard pictograms (CLP) Hazard statements (CLP) Precautionary statements (CLI • Prevention • Response • Storage	Regulation (EC) No. 1272/2008 [CLP] Oxidising Gases, Category 1 H270 Gases under pressure : Compressed gas H280 Hation (EC) No. 1272/2008 [CLP] Image: Compression (Cle) Image: Cle



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

097A_ULTRAOXY

UltraOxy

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH registration No: *1	100	Ox. Gas 1, H270 Press. Gas (Comp.), H280

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

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

*3: Registration not required: Substance manufactured or imported < 1t/y.

3.2. Mixtures Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Ingestion	: Ingestion is not considered a potential route of exposure.	
Eye contact	: Adverse effects not expected from this product.	
Skin contact	: Adverse effects not expected from this product.	
Inhalation	: Remove victim to uncontaminated area.	

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

Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion. See section 11.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray or fog.
Unsuitable extinguishing media	Product does not burn, use fire control measures appropriate for the surrounding fire. : Do not use water jet to extinguish.
5.2. Special hazards arising from the substance of	or mixture
Specific hazards	: Supports combustion. Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.
5.3. Advice for firefighters	
Specific methods	 Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.
Special protective equipment for fire fighters	 Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

UltraOxy

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures		
	Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. See section 5.3 of the SDS for more information.	
6.2. Environmental precautions		
	Try to stop release.	
6.3. Methods and material for containment and	cleaning up	
	Ventilate area.	
6.4. Reference to other sections		
	See also sections 8 and 13.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Safe use of the product Safe handling of the gas receptacle	 Use no oil or grease. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not smoke while handling product. Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu. Use only oxygen approved lubricants and oxygen approved sealings. Avoid suck back of water, acid and alkalis. Only experienced and properly instructed persons should handle gases under pressure. Ensure the complete gas system was (or is regularily) checked for leaks before use. Use only with equipment cleaned for oxygen service and rated for container pressure. The product must be handled in accordance with good industrial hygiene and safety procedures. Consider pressure relief device(s) in gas installations. Do not allow backfeed into the container. Protect containers from physical damage; do not drag, roll, slide or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Never attempt to transfer gases from one cylinder/container to another. 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 content of the container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock.	
7.2. Conditions for safe storage, including any		
	Segregate from flammable gases and other flammable materials in store.	
	Observe all regulations and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in the vertical position and properly secured to prevent them from falling	

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Keep container below 50°C in a well ventilated place.

Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

UltraOxy

7.3. Specific end use(s)		
	None.	
SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
OEL (Occupational Exposure Limits)	: None available.	
DNEL (Derived-No Effect Level)	: None available.	
PNEC (Predicted No-Effect Concentration)	: None available.	
8.2. Exposure controls		
8.2.1. Appropriate engineering controls		
	Avoid oxygen rich (>23,5%) atmospheres. Gas detectors should be used when oxidising gases may be released. Provide adequate general and local exhaust ventilation. Consider the use of a work permit system e.g. for maintenance activities. Systems under pressure should be regularily checked for leakages.	
8.2.2. Individual protection measures, e.g. perso	onal protective equipment	
	A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered: PPE compliant to the recommended EN/ISO standards should be selected.	
Eye/face protection	: Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications.	
Skin protection		
Hand protection	 Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher. 	
Other	 Consider the use of flame resistant safety clothing. Standard EN ISO 14116 - Limited flame spread materials. Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear. 	
Respiratory protection	 None necessary. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. 	
Thermal hazards	: None in addition to the above sections.	
8.2.3. Environmental exposure controls		
	Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific	

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and chemical properties	

methods for waste gas treatment.

Appearance	
 Physical state at 20°C / 101.3kPa 	: Gas.
- Colour	: Colourless.
Odour	: No odour warning properties.
	Odour threshold is subjective and inadequate to warn of overexposure.
Melting point / Freezing point	: -219 °C
Boiling point	: -183 °C
Flammability	: Non flammable.
Lower explosive limit (LEL)	: Not available.
Upper explosive limit (UEL)	: Not available.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
pH	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: No reliable data available.
Water solubility [20°C]	: 39 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not available.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

UltraOxy

Onracky		
Density and/or relative density	: Not applicable.	
Relative vapour density (air=1)	: 1,1	
Particle characteristics	: Not applicable for gases and gas mixtures.	
9.2. Other information		
9.2.1. Information with regard to physical hazard cla	asses	
Explosion limits	: Non flammable.	
Oxidising properties	: Oxidiser.	
 Coefficient of oxygen equivalency (Ci) Critical temperature [°C] 	: 1 : -118 °C	
9.2.2. Other safety characteristics		
Molar mass	: 32 g/mol	
	. 52 ginoi	
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		
	Avoid moisture in installation systems.	
10.5. Incompatible materials		
	Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu. Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion. May react violently with combustible materials. May react violently with reducing agents. For additional information on compatibility refer to ISO 11114.	
10.6. Hazardous decomposition products		
	None.	
SECTION 11: Toxicological information		
11.1. Information on hazard classes as define	ed in Regulation (EC) No 1272/2008	
Acute toxicity	: No known toxicological effects from this product.	
Skin corrosion/irritation	: No known effects from this product.	
Serious eye damage/irritation	: No known effects from this product.	
Respiratory or skin sensitisation	: No known effects from this product.	
Germ cell mutagenicity	: No known effects from this product.	
Carcinogenicity	: No known effects from this product.	
Toxic for reproduction - Fortility	: No known effects from this product.	
Toxic for reproduction : Fertility Toxic for reproduction : unborn child	: No known effects from this product.	
	No known effects from this product.	
STOT-single exposure		

EUROTRE S.R.L.

: No known effects from this product.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

UltraOxy

OllaOxy		
Aspiration hazard	: Not applicable for gases and gas mixtures.	
11.2. Information on other hazards		
Other information	: The substance/mixture has no endocrine disrupting properties.	
SECTION 12: Ecological information		
<u>12.1. Toxicity</u>		
Assessment	: No ecological damage caused by this product.	
EC50 72h - Algae [mg/l]	 No data available. No data available. No data available. 	
12.2. Persistence and degradability		
Assessment	: No ecological damage caused by this product.	
12.3. Bioaccumulative potential		
Assessment	: No ecological damage caused by this product.	
12.4. Mobility in soil		
Assessment	: No ecological damage caused by this product.	
12.5. Results of PBT and vPvB assessment		
Assessment	: Not classified as PBT or vPvB.	
12.6. Endocrine disrupting properties		
	The substance/mixture has no endocrine disrupting properties.	
12.7. Other adverse effects		
Effect on the ozone layer	 No known effects from this product. No effect on the ozone layer. None. 	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
	May be vented to atmosphere in a well ventilated place. Contact supplier if guidance is required. Ensure that the emission levels from local regulations or operating permits are not exceeded. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.eu for more guidance on suitable disposal methods. Do not discharge into any place where its accumulation could be dangerous. Cylinders are not refillable containers. If the cylinder must be taken out of use, ask the manufacturer/distributor for information on proper disposal.	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	: 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.	
13.2. Additional information		
	External treatment and disposal of waste should comply with applicable local and/or national regulations.	
SECTION 14: Transport information		

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN UN-No.

: 1072



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

UltraOxy

Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: OXYGEN, COMPRESSED
Transport by air (ICAO-TI / IATA-DGR)	: Not expected
Transport by sea (IMDG)	: OXYGEN, COMPRESSED
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases. 5.1 : Oxidizing substances.
Transport by road/rail (ADR/RID)	
Class	: 2
Classification code	: 10
Hazard identification number	: 25
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire	: 2.2 (5.1) : F-C
Emergency Schedule (EmS) - Spillage	: S-W
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable
Transport by sea (IMDG)	: Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s) Transport by road/rail (ADR/RID)	: P200
Transport by sea (IMDG)	P200
Transport by sea (IMDG)	P200
Special transport precautions	 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 there is adequate ventilation. Ensure that containers are firmly secured.
	- Ensure there is adequate ventilation.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

EU-Regulations

Restrictions on use Other information, restriction and prohibition regulations Seveso Directive : 2012/18/EU (Seveso III)	 None. Not listed on the PIC list (Regulation EU 649/2012). Listed.
National regulations	
Regulatory reference	: Ensure all national/local regulations are observed.
15.2. Chemical safety assessment	
	A CSA does not need to be carried out for this product.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Versione: 1.0 Data di pubblicazione: 08/01/2024

097A_ULTRAOXY

UltraOxy

SECTION 16: Other information	
Indication of changes	: Safety data sheet in accordance with commission regulation (EU) No 2020/878.
Abbreviations and acronyms	 ATE - Acute Toxicity Estimate CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 EINECS - European Inventory of Existing Commercial Chemical Substances CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment LC50 - Lethal Concentration to 50 % of a test population RMM - Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative STOT - SE : Specific Target Organ Toxicity - Single Exposure CSA - Chemical Safety Assessment EN - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Roail WGK - Water Hazard Class STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
Training advice Further information	 UFI : Unique Formula Identifier Ensure operators understand the hazard of oxygen enrichment. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). Key literature references and sources of data are maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at http://www.Eiga.eu .

Full text of H- and EUH-statements	
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas

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

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.

End of document