


**SAFETY DATA SHEET**  
**According to Regulation (EC) No. 1907/2006**

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<b>airbreath® OXYGEN</b>					
<b>Product code:</b>	-	<b>Date of issue:</b>	05.09.2018.	<b>Issue:</b>	1.0

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

<b>1.1. Product identifier</b>	
<b>Substance name:</b>	airbreath® OXYGEN
<b>Synonyms:</b>	-
<b>EC No.:</b>	-
<b>1.2. Relevant identified uses of the substance or mixture and uses advised against</b>	
<b>Relevant identified uses:</b>	Breathing oxygen.
<b>Uses advised against:</b>	-
<b>Reason why uses advised against:</b>	-
<b>1.3. Details of the supplier of the safety data sheet</b>	
<b>Supplier:</b>	<b>Air Rio, owned by Ivan Volarić</b>
<b>Address:</b>	Dražica 15 51 550 Mali Lošinj, Hrvatska
<b>Tel:</b>	+385(0)51/233-777, +385(0)91/1518198
<b>E-mail:</b>	+385(0)51/233-748
<b>Web:</b>	<a href="http://www.airbreath-oxy.com">www.airbreath-oxy.com</a>
<b>Competent person responsible for the SDS:</b>	<b>Ivan Volarić</b> E-mail: <a href="mailto:ivan.volaric01@gmail.com">ivan.volaric01@gmail.com</a> ; <a href="mailto:ivan.volaric@airbreath-oxy.com">ivan.volaric@airbreath-oxy.com</a>
<b>SDS made by:</b>	 E-mail: <a href="mailto:info@stl.hr">info@stl.hr</a> Web: <a href="http://www.stl.hr">www.stl.hr</a>
<b>1.4. Emergency telephone number</b>	
<b>Emergency Service Number:</b>	112 (National Protection and Rescue Service)
<b>Medical information:</b>	01/23-48-342 (Poison Control Centre, Institute for Medical Research and Occupational Health)
<b>Other data:</b>	-

**SECTION 2. HAZARDS IDENTIFICATION**

<b>2.1. Classification of the substance or mixture</b>	
<b>2.1.1. According to Regulation (EC) No 1272/2008 [CLP]</b>	
<b>Hazard class and category:</b>	<b>Hazard statement*:</b>
Ox. Gas 1	H270
Press. Gas	H280
<b>2.1.2. Additional information</b>	
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\* For the classifications H and EUH not written out in full in this section the full text can be found in section 16.

**2.2. Label elements according to Regulation (EC) No 1272/2008 [CLP]**

<b>Product identifier:</b>	airbreath® OXYGEN
<b>Pictogram:</b>	
<b>Signal word:</b>	<b>WARNING</b>
<b>Hazard statements:</b>	<b>H270</b> May cause or intensify fire; oxidizer
<b>Precautionary statements:</b>	<p><b>[PREVENTION]</b>  <b>P220</b> Keep/Store away from clothing and other combustible materials.  <b>P244</b> Keep valves and fittings free from oil and grease.</p> <p><b>[RESPONSE]</b>  <b>P370+P376</b> In case of fire: Stop leak if safe to do so.</p> <p><b>[STORAGE]</b>  <b>P403</b> Store in a well-ventilated place.</p>
<b>Supplemental Hazard information:</b>	-

**2.3. Other hazards**

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Name	CAS Number/ EC Number/ INDEX Number	Weight Content [%]	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Oxygen	7782-44-7/ 231-956-9/ 008-001-00-8	99.0	Ox. Gas 1, H270 Press. Gas, H280

**SECTION 4. FIRST-AID MEASURES**

**4.1. Description of first aid measures**

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	<b>If inhaled:</b>	Remove the person to fresh air. Rescue breathing is needed if the person collapses and stops breathing. In case of dizziness, headache and nausea or similar symptoms seek medical advice. If the person is unconscious, transport to a hospital in a sideways position keeping the airway free.
	<b>On skin contact:</b>	None.
	<b>On eye contact:</b>	None.
	<b>On ingestion:</b>	Considered impossible.
	<b>Self-protection of the first aider:</b>	See SECTION 8.

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

	<b>If inhaled:</b>	Continuous inhalation of high concentrations of oxygen of over 75 % may cause nausea, dizziness, difficulty breathing and muscle cramps.
	<b>On skin contact:</b>	None.
	<b>On contact with eyes:</b>	None.
	<b>On ingestion:</b>	None.

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

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**SECTION 5. FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

	<b>Suitable extinguishing media:</b>	Use extinguishing media suitable to the environment.
	<b>Unsuitable extinguishing media :</b>	Direct water jet may cause fire dispersion.

**5.2. Special hazards arising from the substance or mixture**

	<b>Hazardous combustion products:</b>	Nitrogen oxides (NO <sub>x</sub> ). Silicon oxides. Exposure to combustion products may have harmful effects.
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**5.3. Advice for firefighters**

	<b>Special fire-fighting methods:</b>	Use water mist and cooling spray to cool surfaces of undamaged containers exposed to heat, to protect people and remove vapour from the air. Only trained fire-fighters may use water spray zařtitu (dispersed water jet).
	<b>Special protective equipment:</b>	For extinguishing fires in closed spaces use self-contained compressed air breathing apparatus (e.g. open circuit) (HRN EN 137) and thermal protective suit (HRN EN 367).

**5.4. Further information**

	Oxygen supports combustion.	
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

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<b>For non-emergency personnel</b>	
<b>Protective equipment:</b>	See Section 8.
<b>Emergency procedures:</b>	Do not smoke. Follow the handling instructions. Ensure proper ventilation.
<b>In case of accidents:</b>	Evacuate the area and avoid any ignition sources. The area has to be properly ventilated.

<b>For emergency responders</b>	
Evacuate the area and avoid any ignition sources. Keep the room or area properly ventilated.	

<b>6.2. Environmental precautions</b>	
Prevent discharge into waterways and drainage systems. Ensure proper ventilation. In the event of a major spill call 112 (National Protection and Rescue Service).	

<b>6.3. Methods and material for containment and cleaning up</b>	
<b>For containment:</b>	-
<b>For cleaning up:</b>	-
<b>Other information:</b>	-

<b>6.4. Reference to other sections</b>	
1 (emergency telephone number), 8 (PPE), 13 (waste management).	

**SECTION 7. HANDLING AND STORAGE**

<b>7.1. Precautions for safe handling</b>	
<b>Protective measures</b>	
<b>Measures to prevent fire:</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. Use non-sparking tools. Take measures to prevent static electricity.
<b>Measures to prevent aerosol and dust generation:</b>	Not applicable.
<b>Measures to protect the environment:</b>	Prevent discharge into water and waterways.

<b>Advice on general occupational hygiene</b>	
Never allow oxygen to come in contact with oils, greases and lubricated materials. Smoking is forbidden when handling the product.	

<b>7.2. Conditions for safe storage, including any incompatibilities</b>	
<b>Technical measures and storage conditions:</b>	Store in a dry and well-ventilated place. Store below 50 °C.
<b>Packaging materials:</b>	Store in original containers.
<b>Requirements for storage rooms and vessels:</b>	Keep containers upright and sealed.
<b>Advice on storage:</b>	-

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<b>Further information on storage conditions:</b>	Do not store with strong oxidising agents and flammable gases.
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**7.3. Specific end use(s)**

<b>Recommendations:</b>	-
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<b>Industrial sector specific solutions:</b>	-
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**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

Substance	CAS Number	Limit value [ppm / mg/m <sup>3</sup> ]		Biological limit value
		Long-term	Short-term	
-	-	- / -	- / -	-

**DNEL**

Route of exposure	Route of exposure	Route of exposure	Route of exposure	Route of exposure
<b>Oral:</b>	-	-	-	-
<b>Dermal:</b>	-	-	-	-
<b>Inhalation:</b>	-	-	-	-

**PNEC**


<b>Fresh water:</b>	-
<b>Marine water:</b>	-
<b>Water (gradual release):</b>	-
<b>Sediment (fresh water):</b>	-
<b>Sediment (marine water):</b>	-
<b>Microorganisms in sewage treatment:</b>	-

**8.2. Exposure controls**

**Appropriate engineering controls**

The effects of ventilation and/or other technical measures may be found in HRN EN 689 – Workplace atmosphere – Guideline for assessment of exposure to chemicals through inhalation and comparison to permissible exposure limits and measurement strategy.




**Personal protection**

<b>Eye and face protection:</b>	Protective goggles (HRN EN 166).
	

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<b>Hand protection:</b>	
	Protective gloves (HRN EN 374).
<b>Other skin protection:</b>	
	Protective work clothes with long sleeves and pants (HRN EN ISO 13688).
<b>Respiratory protection:</b>	
	Not required.

<b>Environmental exposure controls</b>	
	Prevent discharge into sewer, surface and underground waters.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

	Value [Method]
<b>Appearance</b>	Gas
<b>Colour:</b>	Colourless
<b>Odour:</b>	None
<b>pH:</b>	Not applicable
<b>Melting point/freezing point [°C]:</b>	-219
<b>Boiling point[°C]:</b>	-183
<b>Flash point [°C]:</b>	Not applicable
<b>Evaporation rate (butyl acetate = 1):</b>	-
<b>Flammability (solid, gas):</b>	Not applicable
<b>Upper and lower flammability or explosive limits [% vol.]:</b>	Not applicable
<b>Vapour pressure (air = 1):</b>	260 (2 L) 215 (10 L)
<b>Vapour density (air = 1):</b>	1.105
<b>Density [kg/m³]:</b>	1.105 (21.1 °C)
<b>Bulk density [kg/m³]:</b>	Not applicable.
<b>Solubility in water:</b>	39
<b>Partition coefficient n-octanol/water (log Pow):</b>	-
<b>Auto-ignition temperature [°C]:</b>	Not applicable.
<b>Decomposition temperature [°C]:</b>	-
<b>Viscosity [Pa.s]:</b>	Not applicable.
<b>Explosive properties:</b>	Not applicable.

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<b>Oxidising properties:</b>	Oxidizer.
<b>9.2. Other information</b>	
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**SECTION 10. STABILITY AND REACTIVITY**

<b>10.1. Reactivity</b>	Reacts strongly with flammables and reducing agents/substances. Causes an oxidation reaction with organic materials.
<b>10.2. Chemical stability</b>	Reacts strongly with flammables and reducing agents/substances. Causes an oxidation reaction with organic materials.
<b>10.3. Possibility of hazardous reactions</b>	Reacts strongly with flammables and reducing agents/substances. Causes an oxidation reaction with organic materials.
<b>10.4. Conditions to avoid</b>	Take into account potential toxicity hazard in the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines and equipment in case of combustion. Avoid greased and oiled equipment.
<b>10.5. Incompatible materials</b>	Flammable materials, reducing agents, organic materials.
<b>10.6. Hazardous decomposition products</b>	Carbon dioxides.

**SECTION 11. TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

Route of exposure	Method	Species	Dose [LD <sub>50</sub> ]	Time of exposure	Result
Ingestion:	-	-	-	-	-
Skin contact:	-	-	-	-	-
Inhalation:	-	-	-	-	-

**Irritation /corrosion**

<b>Eyes:</b>	-
<b>Skin:</b>	-

**Sensitisation**

<b>Skin contact:</b>	-
<b>Inhalation:</b>	-

**Repeated dose toxicity (subacute, sub chronic, chronic)**

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**STOT-single exposure (TCOJ)**

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**STOT-repeated exposure (TCOP):**

-

**Aspiration hazard:**

-

**CMR effects (carcinogenicity, mutagenicity, reproductive toxicity)**

**Carcinogenicity:** -

**Mutagenicity:** -

**Adverse effects on fertility:** -

**Reproductive toxicity:** -

**11.2. Practical experience**

Danger of cryogenic burns.

**11.3. General instructions**

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**SECTION 12. ECOLOGICAL INFORMATION**

**12.1. Ecotoxicity**

-

**12.2. Persistence and degradability**

**Abiotic degradation:** -

**Biodegradation:** -

**12.3. Bioaccumulative potential**

**Partition coefficient n-octanol /water (log Kow):** -

**Bioconcentration factor (BCF):** -

**Chronic ecotoxicity:** -

**12.4. Mobility in soil**

**Known or predicted distribution to environmental compartments:** -

**Surface tension:** -

**Adsorption/Desorption:** -

**12.5. Results of PBT and vPvB assessment**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

**12.6. Other adverse effects**

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**SECTION 13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**Product / Packaging disposal**



Dispose of separately from municipal solid waste! Hand over for disposal to the supplier. Hand over for disposal to authorized legal entities for hazardous waste disposal.

**Waste codes**

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**Other disposal recommendations**

Should not be disposed of as municipal solid waste. Waste should not be disposed of by release to sewers. Non-contaminated packaging may be recycled.

**SECTION 14. TRANSPORT INFORMATION**

	ADR / RID	ADN / ADNR	IMDG	ICAO-TI / IATA-DGR
<b>UN number:</b>	1072	1072	1072	1072
<b>UN proper shipping name:</b>	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED	OXYGEN, COMPRESSED
<b>Transport hazard class(es):</b>	2	2	2	2
<b>Packing group:</b>	2.2	2.2	2.2	2.2
<b>Environmental hazards:</b>	-	-	-	-
<b>Special precautions for users:</b>	Passage forbidden through tunnels of category E.			

**SECTION 15. REGULATORY INFORMATION**

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

<b>EU regulations:</b>	Regulation (EC) No 1907/2006 [REACH]; Regulation (EC) No. 1272/2008 [CLP].
<b>Authorizations</b>	-
<b>Restrictions:</b>	-
<b>Other EU regulations:</b>	-

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	<b>National regulations:</b>	<p><b>Chemicals Act</b>, Regulations on Hazardous Substance Exposure Limit Values during Work and Biological Limit Values; Regulation on Limit Values of Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products; <b>Act on Sustainable Waste Management</b> and subordinate legislation; <b>Hazardous Materials Transport Act</b>; European Agreement on International Road Transport of Hazardous Materials (ADR); Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); Regulations on the Transport and Handling of Dangerous Goods in Inland Waterways.</p>
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**15.2. Chemical Safety Assessment**

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**SECTION 16. OTHER INFORMATION**

<b>16.1. Indication of changes:</b>	-
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<b>16.2. Abbreviations and acronyms:</b>	<p>ATE – <i>Acute Toxicity Estimate</i>          LC<sub>50</sub> – the concentration that kills 50% members of a tested population.          LD<sub>50</sub> – the dose that kills 50 % members of a tested population.          PBT – persistence, bioaccumulation and toxicity.          vPvB – (very) Persistent, (very) Bioaccumulative.</p>
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<b>16.3. Key literature references and sources for data:</b>	MSDS, ESIS, ICSC, UNEP, IUCLID, IPCS INCHEM, OECD.
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**16.4. Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Classification according to CLP	Classification procedure
H270 H280	Classification according to Regulation (EC) 1272/2008 [CLP]

**16.5. Relevant H statements (number and full text):**

<b>H-statements:</b>	270	May cause or intensify fire; oxidizer
	280	Contains gas under pressure; may explode if heated.

<b>16.6. Training advice:</b>	-
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<b>16.7. Further information:</b>	-
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**APPENDIX:**  
**EXPOSURE SCENARIOS IN ACCORDANCE WITH CHEMICAL SAFETY REPORT**

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