

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

Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

Azomix O1

	ce/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
Trade name	: Azomix O1	
SDS code	: MSDS.000099	
1.2. Relevant identified uses of the substance	or mixture and uses advised against	
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.	
Uses advised against	 Consumer use. Uses other than those listed above are not supported, contact your supplier for more information on other uses. 	
1.3. Details of the supplier of the safety data s	sheet	
Sapio Produzione Idrogeno Ossigeno Srl		
Via S. Pellico, 48		
20900 Monza		
T +39 039 836068		
www.sapio.it E-mail address of competent person responsible for the	SDS : sds@sanio it	
1.4. Emergency telephone number		
Emergency telephone number	: +39 0295705444 (24/7)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture	<u>e</u>	
Classification according to Regulation (EC) No. 1272	2/2008 [CLP]	
Physical hazards Gases under pressure :	Compressed gas H280	
2.2. Label elements		
2.2. Label elements		
2.2. Label elements Labelling according to Regulation (EC) No. 1272/200	98 [CLP]	
	18 [CLP]	
Labelling according to Regulation (EC) No. 1272/200		
Labelling according to Regulation (EC) No. 1272/200	BE [CLP] : GHS04 : Warning	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP)	GHS04	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP) Signal word (CLP)	: Warning	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	: Warning	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP)	: GHS04 : Warning : H280 - Contains gas under pressure; may explode if heated.	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage	 GHS04 Warning H280 - Contains gas under pressure; may explode if heated. P403 - Store in a well-ventilated place. 	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage	 GHS04 Warning H280 - Contains gas under pressure; may explode if heated. P403 - Store in a well-ventilated place. Asphyxiant in high concentrations. 	
Labelling according to Regulation (EC) No. 1272/200 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage	 GHS04 Warning H280 - Contains gas under pressure; may explode if heated. P403 - Store in a well-ventilated place. 	



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MSDS.000099

Azomix O1

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	99	Press. Gas (Comp.), H280
oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	1	Ox. Gas 1, H270 Press. Gas (Comp.), H280

Full text of H- and EUH-statements: see section 16

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.

SECTION 4: First aid measures <u>4.1. Description of first aid measures</u>		
Skin contact	: Adverse effects not expected from this product.	
Eye contact	: Adverse effects not expected from this product.	
Ingestion	: Ingestion is not considered a potential route of exposure.	

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

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. 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 or mixture			
Specific hazards Hazardous combustion products	 Exposure to fire may cause containers to rupture/explode. 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	 In confined space use self-contained breathing apparatus. 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. 		



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

Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

Azomix O1

.1. Personal precautions, protective equipment	and emergency procedures
For non-emergency personnel	: Act in accordance with local emergency plan. Try to stop release.
	Evacuate area.
	Ensure adequate air ventilation.
	Stay upwind.
	See section 8 of the SDS for more information on personal protective equipment
or emergency responders	: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
	Oxygen detectors should be used when asphyxiating gases may be released.
	See section 5.3 of the SDS for more information.
.2. Environmental precautions	
	Try to stop release.
3.3. Methods and material for containment and c	leaning up
	Ventilate area.
A Defense to other continue	
3.4. 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	: The product must be handled in accordance with good industrial hygiene and safety procedures.
	Only experienced and properly instructed persons should handle gases under pressure.
	Consider pressure relief device(s) in gas installations.
	Ensure the complete gas system was (or is regularily) checked for leaks before use.
	Do not smoke while handling product.
	Use only properly specified equipment which is suitable for this product, its supply pressure and
	temperature. Contact your gas supplier if in doubt.
	Use only oxygen approved lubricants and oxygen approved sealings. Avoid suck back of water, acid and alkalis.
	Do not breathe gas.
	Avoid release of product into work area.
Safe handling of the gas receptacle	: 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.
	Leave valve protection caps in place until the container has been secured against either a wall or benc
	or placed in a container stand and is ready for use. 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.
	Replace valve outlet caps or plugs and container caps where supplied as soon as container is
	disconnected from equipment.
	Close container valve after each use and when empty, even if still connected to equipment.
	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 ir	
	Observe all regulations and local requirements regarding storage of containers.
	Containers should not be stored in conditions likely to encourage corrosion.
	Container valve guards or caps should be in place.
	Containers should be stored in the vertical position and properly secured to prevent them from falling
	over.
	Stored containers should be periodically checked for general condition and leakage.
	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

Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

Azomix O1

7.3. Specific end use(s)		
	None.	
SECTION 8: Exposure controls/persor	nal 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		
	Provide adequate general and local exhaust ventilation. Oxygen detectors should be used when asphyxiating gases may be released. Systems under pressure should be regularily checked for leakages. Consider the use of a work permit system e.g. for maintenance activities.	
8.2.2. Individual protection measures, e.g. persor	nal protective equipment	
Eye/face protection Skin protection Hand protection	 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. Wear safety glasses with side shields. Standard EN 166 - Personal eye-protection - specifications. Wear working gloves when handling gas containers. 	
Other	Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher. : Wear safety shoes while handling containers.	
Respiratory protection	 Standard EN ISO 20345 - Personal protective equipment - Safety footwear. When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD. 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		
	None necessary.	
SECTION 9: Physical and chemical pr	operties	
9.1. Information on basic physical and che	mical properties	
Appearance - Physical state at 20°C / 101.3kPa - Colour Odour	: Gas. : Colourless. : Odourless. Odour threshold is subjective and inadequate to warn of overexposure.	
Molting point / Freezing point	Not applicable for gappa and gap mitures	

: Not applicable for gases and gas mixtures. : Not applicable for gas mixtures.

Melting point / Freezing point Boiling point

	lowest boiling point: Nitrogen -196 °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.
рН	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: Not applicable for gases and gas mixtures.
Water solubility [20°C]	: Mixture is partially soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Sapio Produzione Idrogeno Ossigeno Srl	EN (English)

It is technically not possible to determine the boiling point or range of this mixture. Component with



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

Azomix O1

Relative vapour density (air=1) : Lighter or similar to air. Particle characteristics : Not applicable for gases and gas mixtures. 9.2. Other information : Not applicable for gases and gas mixtures. 9.2. Other information : Non flammable. 9.2. Other safety characteristics : Non flammable. 0xidising properties : Non flammable. 0xidising properties : None. SECTION 10: Stability and reactivity : None. 10.1. Reactivity : Data for mixture are not available. 10.2. Chemical stability : Stable under normal conditions. 10.3. Possibility of hazardous reactions : None. Reactivity : None. 10.4. Conditions to avoid : None. 10.5. Incompatible materials : Avoid moisture in installation systems.	Density and/or relative density	: Not applicable.
92. Other information Information with regard to physical hazard classes Explosion limits : Non flammable. Cxidising properties : No oxidising properties. 9.2.1 Unformation with regard to physical hazard classes : Non flammable. Explosion limits : Non scidising properties. 9.2.2 Other safety characteristics : None. SECTION 10: Stability and reactivity : Data for mixture are not available. 10.1. Reactivity : Data for mixture are not available. 10.2. Chemical stability : Stable under normal conditions. 10.3. Possibility of hazardous reactions : None. Reactivity : This mixture contains components with the following reactivity : Violently oxidises organic material. 10.4. Conditions to avoid : Avoid moisture in installation systems. 10.5. Incompatible materials : For additional information on compatibility refer to ISO 11114.		
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	<u></u>	For additional information on compatibility refer to ISO 11114.
10 C. Harardaua dagampagitian producto	10.6 Hererdeus desembosition products	· · · · · · · · · · · · · · · · · · ·
10.6. Hazardous decomposition products	IU.0. HAZAROOUS DECOMPOSITION PRODUCTS	
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity	: No 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 : Fertility Toxic for reproduction : unborn child	No known effects from this product.No known effects from this product.	
STOT-single exposure	: No known effects from this product.	
STOT-repeated exposure	: No known effects from this product.	
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		

12.1. Toxicity



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

Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

Azomix O1		
Assessment	: No ecological damage caused by this product.	
EC50 48h - Daphnia magna [mg/l]	: No data available.	
EC50 72h - Algae [mg/l]	: No data available.	
_C50 96 h - Fish [mg/l]	: No data available.	
2.2. 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		
Other adverse effects	: No known effects from this product.	
Effect on the ozone layer	: No effect on the ozone layer.	
Effect on global warming	: No known effects from this product.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
	May be vented to atmosphere in a well ventilated place.	
	Do not discharge into any place where its accumulation could be dangerous.	
	Return unused product in original container to supplier.	
List of hazardous waste codes (from Commission Decision	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.	
2000/532/EC as amended)		
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		
JN-No.	: 1956	
14.2. UN proper shipping name		
	: COMPRESSED GAS, N.O.S. (Nitrogen, oxygen)	
Fransport by road/rail (ADR/RID)	: Compressed gas, n.o.s. (Nitrogen, oxygen)	
Γransport by air (ICAO-TI / IATA-DGR) Γransport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Nitrogen, oxygen)	
14.3. Transport hazard class(es)		
Labelling		
	2	
	2.2 : Non-flammable, non-toxic gases.	
Transport by road/rail (ADR/RID)		
Class	: 2	
Classification code	: 1A	
Hazard identification number Funnel Restriction	: 20 : E - Passage forbidden through tunnels of category E	
Transport by air (ICAO-TI / IATA-DGR)	. L i assaye ioisiaach anough anneis of category L	
Class / Div. (Sub. risk(s))	: 2.2	

MSDS.000099



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

Azomix O1

Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable
Transport by sea (IMDG)	: Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s)	
Transport by road/rail (ADR/RID)	: P200
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 200.
Cargo Aircraft only	: 200.
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 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.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information		
15.1. Safety, health and environmental regulation	ns/legislation specific for the substance or mixture	
Restrictions on use Other information, restriction and prohibition regulations	 Contains no substance(s) listed on the REACH Candidate List. Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals). 	
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.	

National regulations

15.2. Chemical safety assessment

Regulatory reference

: Ensure all national/local regulations are observed.

A CSA does not need to be carried out for this product.

SECTION 16: Other information Indication of changes : Not applicable.



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000099

	Azomix O1
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 Standard
	UN - United Nations
	ADR - 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 Rail
	WGK - Water Hazard Class
	STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
	UFI : Unique Formula Identifier
Training advice	: The hazard of asphyxiation is often overlooked and must be stressed during operator training.
	For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at
	http://www.eiga.eu
Further information	: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169 : 'Classification and Labelling Guide', downloadable at : http://www.eiga.eu.
	Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

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 resulting from its use can be accepted.

End of document