

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.000094

# Azomix O20

1.1. Product identifier	
Product form	: Mixture
Trade name	: Azomix O20
SDS code	: MSDS.000094
	e substance or mixture and uses advised against
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.
Uses advised against	<ul> <li>Consumer use.</li> <li>Uses other than those listed above are not supported, contact your supplier for more information on oth uses.</li> </ul>
1.2 Dotails of the supplier of the	
1.3. Details of the supplier of the Sapio Produzione Idrogeno Ossigeno S	
Via S. Pellico, 48	
20900 Monza	
T +39 039 836068	
www.sapio.it	sasible for the CDC Lode Coopie it
E-mail address of competent person res	
1.4. Emergency telephone numb	
	: +39 0295705444 (24/7) tion
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## **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	80	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	20	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**

#### 4.1. Description of first aid measures

Inhalation Skin contact Eye contact Ingestion

- : Adverse effects not expected from this product. : Adverse effects not expected from this product.
- : Adverse effects not expected from this product.
- : Ingestion is not considered a potential route of exposure.

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

No effect on living tissue. 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. Product does not burn, use fire control measures appropriate for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the substand	ce 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	<ul> <li>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.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> </ul>
Special protective equipment for fire fighters	<ul> <li>Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.</li> <li>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul>



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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
	: Act in accordance with local emergency plan.	
	Stay upwind. See section 8 of the SDS for more information on personal protective equipment	
For emergency responders	: See section 5.3 of the SDS for more information.	
6.2. Environmental precautions		
	None.	
6.3. Methods and material for containment and cle	aning up	
	None.	
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	<ul> <li>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.</li> <li>Ensure the complete gas system was (or is regularily) checked for leaks before use.</li> <li>Do not smoke while handling product.</li> <li>Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.</li> <li>Use only oxygen approved lubricants and oxygen approved sealings.</li> <li>Avoid suck back of water, acid and alkalis.</li> <li>Do not breathe gas.</li> <li>Avoid release of product into work area.</li> </ul>	
Safe handling of the gas receptacle	<ul> <li>Do not allow backfeed into the container.</li> <li>Protect containers from physical damage; do not drag, roll, slide or drop.</li> <li>When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.</li> <li>Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.</li> <li>If user experiences any difficulty operating valve discontinue use and contact supplier.</li> <li>Never attempt to repair or modify container valves or safety relief devices.</li> <li>Damaged valves should be reported immediately to the supplier.</li> <li>Keep container valve outlets clean and free from contaminants particularly oil and water.</li> <li>Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.</li> <li>Close container valve after each use and when empty, even if still connected to equipment.</li> <li>Never attempt to transfer gases from one cylinder/container to another.</li> <li>Never use direct flame or electrical heating devices to raise the pressure of a container.</li> <li>Do not remove or deface labels provided by the supplier for the identification of the content of the container.</li> <li>Suck back of water into the container must be prevented.</li> <li>Open valve slowly to avoid pressure shock.</li> </ul>	
7.2. Conditions for safe storage, including any inc	ompatibilities	
	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.	
7.3. Specific end use(s)	None.	



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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		
	Provide adequate general and local exhaust ventilation. 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	
	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.	
Other	<ul> <li>Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.</li> <li>Wear safety shoes while handling containers.</li> <li>Standard EN ISO 20345 - Personal protective equipment - Safety footwear.</li> </ul>	
Respiratory protection	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.	
Thermal hazards	: None in addition to the above sections.	
8.2.3. Environmental exposure controls		
	None necessary.	
SECTION 9: Physical and chemical pro	operties	
9.1. Information on basic physical and che	•	

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

Appearance	
- Physical state at 20°C / 101.3kPa	: Gas.
- Colour	: Colourless.
Odour	: Odourless.
	Odour threshold is subjective and inadequate to warn of overexposure.
Melting point / Freezing point	: Not applicable for gases and gas mixtures.
Boiling point	: Not applicable for gas mixtures.
	It is technically not possible to determine the boiling point or range of this mixture. Component with
	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.
pH	: 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.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Lighter or similar to air.
Particle characteristics	: Not applicable for gases and gas mixtures.



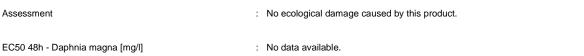
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### 9.2. Other information 9.2.1. Information with regard to physical hazard classes Explosion limits Non flammable. Oxidising properties No oxidising properties. 9.2.2. Other safety characteristics Other data : None. **SECTION 10: Stability and reactivity** 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. 10.6. Hazardous decomposition products 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 : No toxicological effects from this product. Acute toxicity : No known 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** : No known effects from this product. Toxic for reproduction : unborn child : No known effects from this product. STOT-single exposure : No known effects from this product. STOT-repeated exposure : Not applicable for gases and gas mixtures. Aspiration hazard 11.2. Information on other hazards Other information : The substance/mixture has no endocrine disrupting properties. **SECTION 12: Ecological information** 12.1. Toxicity





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EC50 72h - Algae [mg/l]	: No data available.
LC50 96 h - Fish [mg/l]	: No data available.
12.2. Persistence and degradability	
Assessment	: No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	. No coolegical domogo coursed by this product
	: No ecological damage caused by this product.
<u>12.4. Mobility in soil</u>	
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	
12.7. Other adverse effects	. No known offects from this product
Other adverse effects Effect on the ozone layer	: No known effects from this product. : 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 2000/532/EC as amended)	
2000/532/EC as amended)	Return unused product in original container to supplier.
	Return unused product in original container to supplier. : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
2000/532/EC as amended) 13.2. Additional information	Return unused product in original container to supplier.
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2000/532/EC as amended) 13.2. Additional information SECTION 14: Transport information 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID)	Return unused product in original container to supplier.         : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.         External treatment and disposal of waste should comply with applicable local and/or national regulations.         : 1002         : AIR, COMPRESSED
2000/532/EC as amended) 13.2. Additional information SECTION 14: Transport information 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	Return unused product in original container to supplier.         : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.         External treatment and disposal of waste should comply with applicable local and/or national regulations.         : 1002         : AIR, COMPRESSED         : Air, compressed
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2000/532/EC as amended) 13.2. Additional information SECTION 14: Transport information 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID) Transport by sea (IMDG) 14.3. Transport hazard class(es) Labelling Transport by road/rail (ADR/RID) Class Classification code Hazard identification number	Return unused product in original container to supplier. 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04. External treatment and disposal of waste should comply with applicable local and/or national regulations. 1002 AIR, COMPRESSED Air, compressed AIR, COMPRESSED 2.1: Non-flammable, non-toxic gases. 2 2 1A 20
2000/532/EC as amended) 13.2. Additional information SECTION 14: Transport information 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG) 14.3. Transport hazard class(es) Labelling Transport by road/rail (ADR/RID) Class Classification code Hazard identification number Tunnel Restriction Transport by air (ICAO-TI / IATA-DGR) Class / Div. (Sub. risk(s))	Return unused product in original container to supplier. 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04. External treatment and disposal of waste should comply with applicable local and/or national regulations. 1002 AIR, COMPRESSED Air, compressed AIR, COMPRESSED 2.1: Non-flammable, non-toxic gases. 2 2 1A 20
2000/532/EC as amended) 13.2. Additional information SECTION 14: Transport information 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID) Transport by sea (IMDG) 14.3. Transport hazard class(es) Labelling Transport by road/rail (ADR/RID) Class Classification code Hazard identification number Tunnel Restriction Transport by air (ICAO-TI / IATA-DGR)	<ul> <li>Return unused product in original container to supplier.</li> <li>16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.</li> <li>External treatment and disposal of waste should comply with applicable local and/or national regulations.</li> <li>1002</li> <li>AIR, COMPRESSED</li> <li>Air, compressed</li> <li>AIR, COMPRESSED</li> <li>AIR, COMPRESSED</li> <li>2.2 : Non-flammable, non-toxic gases.</li> <li>2</li> <li>1</li> <li>20</li> <li>E - Passage forbidden through tunnels of category E</li> </ul>



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

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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) Transport by sea (IMDG)	: Not applicable : 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 o	
	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.	
	<ul> <li>Ensure valve protection device (where provided) is correctly fitted.</li> </ul>	

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)	<ul> <li>Contains no substance(s) listed on the REACH Candidate List.</li> <li>Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).</li> <li>Not covered.</li> </ul>
National regulations	
Regulatory reference <u>15.2. Chemical safety assessment</u>	: 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.



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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	: None.	
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.

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