

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.000166

# Argomix EO 3001

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1. Product identifier		
Product form	: Mixture	
Trade name	: Argomix EO 3001	
SDS code	: MSDS.000166	
1.2. Relevant identified uses of the substance of		
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	
1.3. Details of the supplier of the safety data she		
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 SE		
	νο . <u>συσ « σαμιν.π</u>	
<u>1.4. Emergency telephone number</u>	20 0205705444 (24/7)	
Emergency telephone number	: +39 0295705444 (24/7)	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mixture		
2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/20	008 [CLP]	
Classification according to Regulation (EC) No. 1272/20           Physical hazards         Gases under pressure : Co		
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [	ompressed gas H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)	H280 CLPJ : GHS04 : Warning	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)         Signal word (CLP)         Hazard statements (CLP)	H280 CLPJ CLPJ GHS04	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)         Signal word (CLP)         Hazard statements (CLP)         Precautionary statements (CLP)	H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)         Signal word (CLP)         Hazard statements (CLP)	H280 CLPJ : GHS04 : Warning	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)         Signal word (CLP)         Hazard statements (CLP)         Precautionary statements (CLP)	H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)         Signal word (CLP)         Hazard statements (CLP)         Precautionary statements (CLP)         - Storage	H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280 H280	
Classification according to Regulation (EC) No. 1272/20         Physical hazards       Gases under pressure : Co         2.2. Label elements         Labelling according to Regulation (EC) No. 1272/2008 [         Hazard pictograms (CLP)         Signal word (CLP)         Hazard statements (CLP)         Precautionary statements (CLP)         - Storage	H280 FCLPJ F GHS04 F Warning H280 - Contains gas under pressure; may explode if heated. F P403 - Store in a well-ventilated place.	



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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]
Argon	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: REACH-no: *1	69	Press. Gas (Comp.), H280
Helium	CAS-No.: 7440-59-7 EC-No.: 231-168-5 EC Index-No.: REACH-no: *1	30	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**

#### 4.1. Description of first aid measures

Inhalation	: Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm
	and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
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	<ul><li>Exposure to fire may cause containers to rupture/explode.</li><li>None.</li></ul>		
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>		



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SECTION 6: Accidental release measures	
	firefighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
	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
Special protective equipment for fire fighters	: In confined space use self-contained breathing apparatus.

### 6.1. 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	
For 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.	
6.2. Environmental precautions		
	Try to stop release.	
6.3. Methods and material for containment and cleaning up		
	Ventilate area.	

See also sections 8 and 13.

# 6.4. Reference to other sections

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>



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# 7.2. Conditions for safe storage, including any incompatibilities

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.

8.1. Control parameters	
OEL (Occupational Exposure Limits)	: None available.
DNEL (Derived-No Effect Level)	: None available.
PNEC (Predicted No-Effect Concentration)	: None available.
3.2. Exposure controls	
3.2.1. 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.
3.2.2. Individual protection measures, e.g. perso	nal protective equipment
	A risk assessment should be conducted and documented in each work area to assess the risks related t 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	: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	<ul> <li>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.</li> <li>Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul>
Thermal hazards	: None in addition to the above sections.
3.2.3. Environmental exposure controls	
	None necessary.

### 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 war	n 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: Helium -269 °C	
Flammability	Non flammable.	
Sapio Produzione Idrogeno Ossigeno Srl	EN (English)	MSDS.000166



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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.
9.2. Other information	
9.2.1. Information with regard to physical hazard cl	asses
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	
TO.II. Redotivity	
	Data for mixture are not available.
10.2 Chemical stability	Data for mixture are not available.
10.2. Chemical stability	Data for mixture are not available.
10.2. Chemical stability	Data for mixture are not available. Stable under normal conditions.
10.2. Chemical stability 10.3. Possibility of hazardous reactions	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Stable under normal conditions. None.
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	Stable under normal conditions. None.
10.3. Possibility of hazardous reactions Reactivity	Stable under normal conditions. None.
10.3. Possibility of hazardous reactions Reactivity 10.4. Conditions to avoid	Stable under normal conditions. None. : This mixture contains components with the following reactivity : Violently oxidises organic material.
10.3. Possibility of hazardous reactions Reactivity	Stable under normal conditions. None. : This mixture contains components with the following reactivity : Violently oxidises organic material.
10.3. Possibility of hazardous reactions Reactivity 10.4. Conditions to avoid	Stable under normal conditions. None. : This mixture contains components with the following reactivity : Violently oxidises organic material.
10.3. Possibility of hazardous reactions Reactivity 10.4. Conditions to avoid 10.5. Incompatible materials	Stable under normal conditions. None. : This mixture contains components with the following reactivity : Violently oxidises organic material. Avoid moisture in installation systems.
10.3. Possibility of hazardous reactions Reactivity 10.4. Conditions to avoid	Stable under normal conditions. None. : This mixture contains components with the following reactivity : Violently oxidises organic material. Avoid moisture in installation systems.

# 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	<ul><li>No known effects from this product.</li><li>No known effects from this product.</li></ul>	
STOT-single exposure	: No known effects from this product.	

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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	
<u>12.1. Toxicity</u>	
Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l]	<ul> <li>No data available.</li> <li>No data available.</li> <li>No data available.</li> </ul>
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.
<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	
Other adverse effects	: No known effects from this product.
Effect on the ozone layer Effect on global warming	No effect on the ozone layer.     No known effects from this product.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	<ul> <li>May be vented to atmosphere in a well ventilated place.</li> <li>Do not discharge into any place where its accumulation could be dangerous.</li> <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> </ul>
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.

: 1956



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#### 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))

Transport by sea (IMDG) Class / Div. (Sub. risk(s)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage

### 14.4. Packing group

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

#### 14.5. Environmental hazards

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

#### 14.6. Special precautions for user

Packing Instruction(s)		
Transport by road/rail (ADR/RID)		
Transport by air (ICAO-TI / IATA		

)) -DGR) nsport by air (ICAO-II) Passenger and Cargo Aircraft Cargo Aircraft only Transport by sea (IMDG)

Special transport precautions

- : COMPRESSED GAS, N.O.S. (Argon, Helium)
- : Compressed gas, n.o.s. (Argon, Helium)
- : COMPRESSED GAS, N.O.S. (Argon, Helium)



2.2 : Non-flammable, non-toxic gases.

- 2 : 1A
- : 20
- : E Passage forbidden through tunnels of category E
- : 2.2
- : 2.2
- : F-C : S-V
- : Not applicable
- : Not applicable
- : Not applicable
- : None.
- : None.
- : None.
- : P200
- 200.
- 200. : P200

#### 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 regulations/legislation specific for the substance or mixture

### **EU-Regulations**

Restrictions on use	: Contains no substance(s) listed on the REACH Candidate List.
Other information, restriction and prohibition regulations	: Contains no substance(s) listed on the PIC list (Regulation EU 649/2

: Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).



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Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.
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.

**SECTION 16: Other information** Indication of changes : Not applicable. 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 UEL · 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.

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