

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.000153

Argomix M5

SECTION 1: Identifica	tion of the substance/m	ixture and of the compa	ny/undertaking
1.1. Product identifier			
Product form	:	Mixture	
Trade name	:	Argomix M5	
SDS code	:	MSDS.000153	
1.2. Relevant identified	uses of the substance or m	ixture and uses advised ag	ainst
Relevant identified uses	:	Industrial and professional uses	s. Perform risk assessment prior to use.
Uses advised against	:	Consumer use.	
			ove are not supported, contact your supplier for more information on oth
		uses.	
	er of the safety data sheet		
Sapio Produzione Idrogeno C	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@sapio.it	
1.4. Emergency telepho	ne number		
Emergency telephone number	r :	+39 0295705444 (24/7)	
SECTION 2: Hazards	identification		
2.1. Classification of the	substance or mixture		
	Regulation (EC) No. 1272/2008	ICLP1	
Physical hazards	Flammable gases, Category 1		H221
nyoroan nazarao	Gases under pressure : Comp		H280
2.2. Label elements Labelling according to Reg	ulation (EC) No. 1272/2008 [CLI	2	
Hazard pictograms (CLP)	········		
		<u><u> </u></u>	
		GHS02	
Signal word (CLP)		Danger	
Hazard statements (CLP)	:	H221 - Flammable gas.	
Dressutionen, statement (O	D)	H280 - Contains gas under pres	ssure; may explode if heated.
Precautionary statements (CI - Prevention	,	P210 - Keen away from heat h	ot surfaces, sparks, open flames and other ignition sources. No smoking
- Prevention - Response			textinguish, unless leak can be stopped safely.
		P381 - In case of leakage, elimi	
- Storage	:	P403 - Store in a well-ventilated	-
2.3. Other hazards			
		Asphyxiant in high concentratio	ons.
		These high concentrations are	
		Not classified as PBT or vPvB.	
		The substance/mixture has no e	endocrine disrupting properties.



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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	95	Press. Gas (Comp.), H280
methane	CAS-No.: 74-82-8 EC-No.: 200-812-7 EC Index-No.: 601-001-00-4 REACH-no: 01-2119474442-39	5	Flam. Gas 1A, H220 Press. Gas (Comp.), H280 Aquatic Chronic 3, H412

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 a	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 Unsuitable extinguishing media	Shutting off the source of the gas is the preferred method of control.Do not use water jet to extinguish.
5.2. Special hazards arising from the substance or	mixture
•	 Exposure to fire may cause containers to rupture/explode. carbon monoxide.
5.3. Advice for firefighters	
Specific methods	 Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire. 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

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: 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.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment a	and emergency procedures
For non-emergency personnel	 Act in accordance with local emergency plan. Try to stop release. Evacuate area. Eliminate ignition sources. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stay upwind.
For emergency responders	 See section 8 of the SDS for more information on personal protective equipment Monitor concentration of released product. Consider the risk of potentially explosive atmospheres. 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 cle	eaning 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	: Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment. Purge air from system before introducing gas.

Take precautionary measures against static discharge. Keep away from ignition sources (including static discharges).

Consider pressure relief device(s) in gas installations.

temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis.

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.

Use only properly specified equipment which is suitable for this product, its supply pressure and

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Consider the use of only non-sparking tools. Ensure equipment is adequately earthed.

Do not smoke while handling product.

Avoid release of product into work area.

Do not breathe gas.



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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 bence 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.
2. Conditions for safe storage, including	
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SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
DNEL (Derived-No Effect Level)	: None established.	
PNEC (Predicted No-Effect Concentration)	: None established.	
8.2. Exposure controls		
8.2.1. Appropriate engineering controls		
8.2.2. Individual protection measures, e.g. perso	Provide adequate general and local exhaust ventilation. Product to be handled in a closed system. Gas detectors should be used when flammable gases/vapours may be released. Consider the use of a work permit system e.g. for maintenance activities. Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available).	
	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.	



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Other	: Consider the use of flame resistant anti-static safety clothing.
	Standard EN ISO 14116 - Limited flame spread materials.
	Standard EN 1149-5 - Protective clothing: Electrostatic properties.
	Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
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.
	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	
	Pater to local regulations for restriction of amissions to the atmosphere. See section 13 for specific

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

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: Argon -186 °C
Flammability	: Flammable gas.
Lower explosive limit (LEL)	: Calculated value: 53.37%
Upper explosive limit (UEL)	: No test data or calculation method available.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Not known.
	Auto ignition temperature for mixtures is not available. Component with lowest auto-ignition temperature
	: methane 595 °C
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.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Heavier than air.
Particle characteristics	: Not applicable for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosion limits Oxidising properties Flammability range not available.No oxidising properties.

9.2.2. Other safety characteristics

Other data

: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Data for mixture are not available.

Stable under normal conditions.



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Argomix M5 10.3. Possibility of hazardous reactions Can form explosive mixture with air. May react violently with oxidants. Reactivity Can form explosive mixture with air. May react violently with oxidants. 10.4. Conditions to avoid Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid moisture in installation systems. 10.5. Incompatible materials Air, Oxidisers. 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 Toxicological effects not expected from this product if occupational exposure limit values are not Acute toxicity exceeded. : 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 Assessment Classification criteria are not met. EC50 48h - Daphnia magna [mg/l] : No data available. EC50 72h - Algae [mg/l] No data available LC50 96 h - Fish [mg/l] No data available. methane (74-82-8) EC50 48h - Daphnia magna [mg/l] 69.4 mg/l EC50 72h - Algae [mg/l] 19.4 mg/l LC50 96 h - Fish [mg/l] 147.5 mg/l

12.2. Persistence and degradability

Assessment

: No data available.



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12.3. Bioaccumulative potential	
Assessment	: No data available.
<u>12.4. Mobility in soil</u>	
Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.
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	: Contains greenhouse gas(es).
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	 Contact supplier if guidance is required. Do not discharge into areas where there is a risk of forming an explosive mixture with air. Waste gas should be flared through a suitable burner with flash back arrestor. 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. Return unused product in original container to supplier. 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

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)) Transport by sea (IMDG) Class / Div. (Sub. risk(s)) : 1954

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



2.1 : Flammable gases.

- :2 :1F
- : 1F : 23
- : B/D Tank carriage : Passage forbidden through tunnels of category B, C, D and E. Other carriage : Passage forbidden through tunnels of category D and E
- : 2.1
- : 2.1



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Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage	: F-D : S-U
14.4. Packing group	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	 Not applicable Not applicable Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)	: None. : None. : None.
14.6. Special precautions for user	
Packing Instruction(s)	
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR)	: P200
Passenger and Cargo Aircraft	: Forbidden.
Cargo Aircraft only Transport by sea (IMDG)	: 200. : 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 is closed and not learning.
	- Ensure valve protection device (where provided) is correctly fitted.
14.7. Maritime transport in bulk according	to IMO instruments

Not applicable.

SECTION 15.	Poquilator	information
SECTION 15:	Regulator	y 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 649/2012 concerning the export and import of hazardous chemicals). 	
Seveso Directive : 2012/18/EU (Seveso III)	: 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.



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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	: Ensure operators understand the flammability hazard.	
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	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Gas 1B	Flammable gases, Category 1B
H220	Extremely flammable gas.
H221	Flammable gas.
H280	Contains gas under pressure; may explode if heated.
H412	Harmful to aquatic life with long lasting effects.
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

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