

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS_Ind.Mix_105

	Argomix ND 3020	505_ING.MIX_105
SECTION 1: Identification	on of the substance/mixture and of the company/undertaking	
1.1. Product identifier		
Product form	: Mixture	
Trade name	: Argomix ND 3020	
SDS code	: SDS_Ind.Mix_105	
Internal reference no.	: 001721 of the substance or mixture and uses advised against	
Relevant identified uses	Industrial and professional. Perform risk assessment prior to use. Contact supplier for more information on uses.	
Uses advised against	: Consumer use.	
1.3. Details of the supplier of	the safety data sheet	
Company identification	: Sapio Produzione Idrogeno Ossigeno Srl Via S. Pellico, 48 20900 Monza - ITALIA +39 039 83981 +39 039 836068 http://www.sapio.it/ sds@sapio.it	
1.4. Emergency telephone nu	mber	
Emergency telephone number	: +39 0295705444 (24/7)	
SECTION 2: Hazards ide	entification	
2.1. Classification of the subs	stance or mixture	
Classification according to Regula	ation (EC) No. 1272/2008 [CLP]	
Physical hazards	Gases under pressure: Compressed gas H280	
2.2. Label elements		
Labelling according to Regulation	n (EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	: GHS04	
Signal word (CLP)	: Warning	
Hazard statements (CLP)	: H280 - Contains gas under pressure; may explode if heated.	

Precautionary statements (CLP)

- Storage : P403 - Store in a well-ventilated place.

2.3. Other hazards

Other hazards not contributing to the classification

: Asphyxiant in high concentrations.

In high concentrations CO2 cause rapid circulatory insufficiency. Symptoms are headache, nausea and vomiting, which may lead to unconsciousness.

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.: Registration-No.: *1	50	Press. Gas (Comp.), H280
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: Registration-No.: *1	30	Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: Registration-No.: *1	20	Press. Gas (Liq.), H280



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Full text of H-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.

*2: Registration deadline not expired.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid n	neasures
- 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 symptom	ns 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. Refer to section 11.

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

None.

SECTION 5: Firefighting mea	sures
5.1. Extinguishing media	
 Suitable extinguishing media Unsuitable extinguishing media 	Water spray or fog.Do not use water jet to extinguish.
5.2. Special hazards arising from the	e 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 caus 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 for to knock down fire fumes if possible.

	Use water spray or tog 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 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

SECTION 6: Accidental relea	se measures	
6.1. Personal precautions, protective equipment and emergency procedures		
	Try to stop release.	
	Evacuate area.	
	Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.	
	Ensure adequate air ventilation.	
	Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.	
	Act in accordance with local emergency plan.	
	Stay upwind.	
	Oxygen detectors should be used when asphyxiating gases may be released.	
6.2. Environmental precautions		
	Try to stop release.	
6.3. Methods and material for contain	inment and cleaning up	
	Ventilate area.	
6.4. Reference to other sections		
	See also sections 8 and 13.	
SECTION 7: Handling and sto	orage	

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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.	7.1. Precautions for safe handling	
Protect receptacles from physical damage: do not drag, roll, slide or drop. When moving receptacles, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport receptacles. 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. If user experiences any difficulty operating receptacle 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 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 receptacle contents. 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 incompatibilities Observe all regularions and local requirements regarding storage of containers. Containers should not be stored in conditions likely to encourage corrosion. Container should not be stored in conditions likely to encourage corrosion. Containers should be tored in the vertical position and properly secured to prevent them from falling over. Store containers should be periodically checked for general condition and leakage. Keep containers should be stored in the vertical position and properly secured to prevent them from falling over. Store containers should be stored in the vertical position and properly secured to prevent them from falling over. Store containers should be periodically checked for general condition and leakage. Keep containers h	Safe use of the product	 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. Avoid suck back of water, acid and alkalis. Do not breathe gas.
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.	Safe handling of the gas receptacle	 Do not allow backfeed into the container. Protect receptacles from physical damage; do not drag, roll, slide or drop. When moving receptacles, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport receptacles. 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. If user experiences any difficulty operating receptacle 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 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 receptacle contents. Suck back of water into the container must be prevented.
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.	7.2. Conditions for safe storage, inclu	ding any incompatibilities
7.3. Specific end use(s)		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.
	7.3. Specific end use(s)	

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)					
OEL : Occupational Exposure Lim	its				
	ACGIH TWA (ppm)		5000 ppm		
	ACGIH STEL (ppm)		30000 ppm		
ACGIH	Remark (ACGIH)		Asphyxia		
	Regulatory reference		ACGIH 2017		
	TWA (IT) OEL 8h [mg	/m³]	9000 mg/m ³		
Italy	TWA (IT) OEL 8h [ppr		5000 ppm		
	Regulatory reference	1		/III del D.Lgs. 9 aprile 2008, n. 81 e s.m	ı.i.
DNEL (Derived-No Effect Level)	:	None available.			
PNEC (Predicted No-Effect Concen	tration) :	None available.			
8.2. Exposure controls					
8.2.1. Appropriate engineerin	g controls				
		Provide adequate general	and local exhaust ventilation.		
			hould be regularily checked for I	eakages	
		, ,	occupational exposure limits (wh	5	
			e used when asphyxiating gases		
		,0	permit system e.g. for maintena	5	
			, , ,	ince activities.	
8.2.2. Individual protection m	easures, e.g. persor	hal protective equipme	nt		
				n each work area to assess the risks rela relevant risk. The following recommenda	
		PPE compliant to the recor	nmended EN/ISO standards sho	uld be selected.	
Eye/face protection	: '	Wear safety glasses with s	de shields.		
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	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.
- Other	: Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	: Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.
	Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.
	Gas filters do not protect against oxygen deficiency.
	Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen- deficient atmospheres.
	Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.
	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 properties

9.1. Information on basic physical and chemical properties

Appearance

Appearance	
Physical state at 20°C / 101.3kPa	: Gas
• Colour	Mixture contains one or more component(s) which have the following colour(s): Colourless.
Odour	: Odourless.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
pH	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
Flash point	: Not applicable for gases and gas mixtures.
Evaporation rate	: Not applicable for gases and gas mixtures.
Flammability (solid, gas)	: Non flammable.
Explosive limits	: Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Vapour density	: Not applicable.
Relative density, gas (air=1)	: Heavier than air.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.

9.2. Other information

Molar mass	: Not applicable for gas mixtures.
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			
	No reactivity hazard other than the effects descri	ped in sub-sections below.	
10.2. Chemical stability			
	Stable under normal conditions.		
10.3. Possibility of hazardous reactions			
	None.		
10.4. Conditions to avoid			
	Avoid moisture in installation systems.		
10.5. Incompatible materials			
	None.		
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	For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition produc	
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
SECTION 11: Toxicological info	rmation
11.1. Information on toxicological effect	
Acute toxicity	: Toxicological effects not expected from this product if occupational exposure limit values are not exceeded.
·	Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO2 has been found to act synergistically to increase the toxicity of certain other gases (CO, NO2). CO2 has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems.
	For more information, see EIGA Safety Info 24: "Carbon Dioxide, Physiological hazards" at www.eiga.eu.
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	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.
SECTION 12: Ecological information	ation
12.1. Toxicity	
Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna	: No data available.
EC50 72h - Algae	: No data available.
LC50 96 h - Fish	: No data available.
12.2. Persistence and degradability	
Assessment	: No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	: No data available.
12.4. Mobility in soil	
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 assessme	ient
Assessment	: Not classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	: No known effects from this product.
Effect on the ozone layer	: None.
Effect on global warming	: Contains greenhouse gas(es).
SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
	May be vented to atmosphere in a well ventilated place.
	De pet discharge inte any place where its accumulation could be dengerous

Do not discharge into any place where its accumulation could be dangerous.



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13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or national regulations.

Packing Instruction(s): P200Transport by road/rail (ADR/RID): P200Transport by air (ICAO-TI / IATA-DGR)Passenger and Cargo Aircraft: 200.Cargo Aircraft only: 200.Transport by sea (IMDG): P200	
4.2. UN proper shipping name transport by road/rail (ADR/RD) : COMPRESSED GAS, N.O.S. (Argon, Nitrogen) Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, n.o.s. (Argon, Nitrogen) 4.3. Transport hazard class(es)	
Transport by rad/rail (ADR/RID) : COMPRESSED GAS, N.O.S. (Argon, Nitrogen) Fransport by sea (IMDG) : Compressed gas, n.o.S. (Argon, Nitrogen) Itransport hazard class(es) : .abelling : .abelling : 2.2 : Non-flammable, non-toxic gases. Fransport by rad/rail (ADR/RID) Dass : Classification code : 4.3. Transport by rad/rail (ADR/RID) Dass : Classification code : 4.4. Azard identification number : Transport by sea (IMOG) : Classification code : Transport by sea (IMOG) : Diass / Dix (Sub. risk(s)) : : Transport by rad/rail (ADR/RID) : 2.2 Transport by rad/rail (ADR/RID) : Not applicable Transport by rad/rail (ADR/RID) : 2.2 Transport by rad/rail (ADR/RID) : Not applicable Transport by rad/rail (ADR/RID) : Not applicable Transport by rad/rail (ADR/RID) : None. Transport by rad/rail (ADR/RID) :	
Transport by sea (IMDG) : Compressed gas, n.o.s. (Argon, Nitrogen) Itransport by sea (IMDG) : COMPRESSED GAS, N.O.S. (Argon, Nitrogen) IA3. Transport hazard class(es)	
Transport by sea (MDG) : COMPRESSED GAS, N.O.S. (Argon, Nitrogen) IA.3. Transport hazard class(es)	
4.3. Transport hazard class(es) .abelling : 2.2 : Non-flammable, non-toxic gases. Transport by road/rail (ADR/RID) Jass : Jassification code : Idassification code : image to the formation number : 20 : Unnel Restriction : Transport by (CAO-T1 / IATA-DGR) Jass /Dv. (Sub, risk(s)) : Transport by coad/rail (ADR/RID) : Transport by coad/rail (ADR/RID) : Transport by sea (IMDG) : Transport by air (ICAO-T1 / IATA-DGR) : Transport by air (ICAO-T1 / IATA-DGR) : Transport by air (ICAO-T1 / IATA-DGR) : Transport b	
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- Ensure that containers are firmly secured.	
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 Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. 	
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not applicable.	
SECTION 15: Regulatory information	



according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS_Ind.Mix_105

Argomix ND 3020

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture		
EU-Regulations		
Restrictions on use	: None.	
	: Note: : Not covered.	
Seveso Directive : 2012/18/EU (Seveso III)	. Not covered.	
National regulations		
National legislation	: 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	: Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.	
- 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	
	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	
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). Classification in accordance with the calculation methods of Regulation (EC) 1272/2008 CLP.	

Full wording of relevant H Statements and classification codes

Press. Gas (Comp.)	Gases under pressure: Compressed gas
Press. Gas (Liq.)	Gases under pressure: Liquefied gas
H280	Contains gas under pressure; may explode if heated.

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.