

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

SDS\_Ind.Mix\_066

## Argomix EH 2505

## SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier

Product form	: Mixture
Trade name	: Argomix EH 2505
SDS code	: SDS_Ind.Mix_066
Internal reference no.	: 000063
1.2. Relevant identified uses of the su	bstance 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 safet	y 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 number	
Emergency telephone number	: +39 0295705444 (24/7)

# SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Flammable gases, Category 1 H220 Gases under pressure: Compressed gas H280

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]		
Hazard pictograms (CLP)	: GHS02 GHS04	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.	
Precautionary statements (CLP)		
- Preventio	on : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
- Respon	<ul> <li>P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.</li> <li>P381 - In case of leakage, eliminate all ignition sources.</li> </ul>	
- Storag	ge : P403 - Store in a well-ventilated place.	

#### 2.3. Other hazards

Other hazards not contributing to the classification : None.

#### **SECTION 3: Composition/information on ingredients**

3.1. Substances

## Not applicable 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation ( No. 1272/2008 [CLP]
Argon	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: Registration-No.: *1	70	Press. Gas (Comp.), H280
Helium	CAS-No.: 7440-59-7 EC-No.: 231-168-5 EC Index-No.: Registration-No.: *1	25	Press. Gas (Comp.), H280



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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrogen	CAS-No.: 1333-74-0 EC-No.: 215-605-7 EC Index-No.: 001-001-00-9 Registration-No.: *1	5	Flam. Gas 1, H220 Press. Gas (Comp.), H280

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

	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.

Refer to section 11.

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

None.

SECTION 5: Firefighting measures	S
5.1. Extinguishing media	
<ul> <li>Suitable extinguishing media</li> <li>Unsuitable extinguishing media</li> </ul>	<ul> <li>Water spray or fog.</li> <li>Carbon dioxide.</li> <li>Do not use water jet to extinguish.</li> </ul>
5.2. Special hazards arising from the subs	tance 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.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.</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>In confined space use self-contained breathing apparatus.</li> <li>Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> <li>Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.</li> </ul>
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective equi	pment and emergency procedures
	Try to stop release. Evacuate area. 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. Eliminate ignition sources. Ensure adequate air ventilation. Act in accordance with local emergency plan. Stay upwind.
6.2. Environmental precautions	
	Try to stop release.
6.3. Methods and material for containment	t and cleaning up



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#### 6.4. Reference to other sections

See also sections 8 and 13.

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 temperatur Contact your gas supplier if in doubt.</li> <li>Avoid suck back of water, acid and alkalis.</li> <li>Assess the risk of potentially explosive atmospheres and the need for explosion-proof equipment.</li> <li>Purge air from system before introducing gas.</li> <li>Take precautionary measures against static discharge.</li> <li>Keep away from ignition sources (including static discharges).</li> <li>Consider the use of only non-sparking tools.</li> <li>Do not breathe gas.</li> <li>Avoid release of product into atmosphere.</li> </ul>
Safe handling of the gas receptacle	<ul> <li>Ensure equipment is adequately earthed.</li> <li>Do not allow backfeed into the container.</li> <li>Protect receptacles from physical damage; do not drag, roll, slide or drop.</li> <li>When moving receptacles, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport receptacles.</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 receptacle 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 disconnecte 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 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 receptacle contents.</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, includ	ling 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. Segregate from oxidant gases and other oxidants in store. All electrical equipment in the storage areas should be compatible with the risk of a potentially explosive atmosphere.

None.

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Hydrogen (1333-74-0)					
OEL : Occupational Exposure Limits					
ACGIH	Remark (ACGIH)			Simple Asphyxiant	
ACGIH	Regulatory reference			ACGIH 2017	
DNEL (Derived-No Effect Level)	:	None available.			
PNEC (Predicted No-Effect Concentration) :		None available.			

8.2. Exposure controls



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8.2.1. Appropriate engineering controls	
	Provide adequate general and local exhaust ventilation. Product to be handled in a closed system.
	Systems under pressure should be regularily checked for leakages.
	Ensure exposure is below occupational exposure limits (where available). 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.
8.2.2. Individual protection measures, e.g. per	sonal 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.
	Standard EN 388 - Protective gloves against mechanical risk.
- 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	: 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.
	Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.
Thermal hazards	: None in addition to the above sections.
8.2.3. Environmental exposure controls	

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

SECTION 9: Ph	vsical and c	hemical	properti	es

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

#### 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.
рН	: 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)	: Extremely flammable gas.
Explosive limits	: Flammability range not available.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Vapour density	: Not applicable.
Relative density, gas (air=1)	: Lighter or similar to air.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Not known.
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	: None.



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SECTION 10: Stability and reactivity	
10.1. Reactivity	
	No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	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 toxicological effects		
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 informatio	11		
12.1. Toxicity			
Assessment	: No ecological damage cau	sed 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 cau	sed by this product.	
12.3. Bioaccumulative potential			
Assessment	: No data available.		
12.4. Mobility in soil			
Assessment	: Because of its high volatilit Partition into soil is unlikely	y, the product is unlikely to cause ground or water pollution.	
12.5. Results of PBT and vPvB assessment			
Assessment	: Not classified as PBT or vF	νB.	
12.6. Other adverse effects			
Other adverse effects	: No known effects from this	product.	
Sapio Produzione Idrogeno Ossigeno Srl	EN (English)	Internal reference no.: 000063	5/8

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Effect on the ozone layer	: None.
Effect on global warming	: Contains greenhouse gas(es).
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
	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.
	Do not discharge into any place where its accumulation could be dangerous.
	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 mor guidance on suitable disposal methods.
	Return unused product in original receptacle to supplier.
List of hazardous waste codes (from Commission Decision 2001/118/EC)	: 16 05 04 *: Gases in pressure containers (including halons) containing dangerous substances.
13.2. Additional information	
	External treatment and disposal of waste should comply with applicable local and/or national regulations.
SECTION 14: Transport informatior	h
14.1. UN number	
UN-No.	: 1954
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon)
Transport by air (ICAO-TI / IATA-DGR)	Compressed gas, flammable, n.o.s. (Hydrogen, Argon)
Transport by sea (IMDG)	COMPRESSED GAS, FLAMMABLE, N.O.S. (Hydrogen, Argon)
14.3. Transport hazard class(es)	
Labelling	:
	2.1 : Flammable gases.
Transport by road/rail (ADR/RID)	2.1. Hallinable gases.
Class	: 2
Classification code	: 1F
Hazard identification number	: 23
Tunnel Restriction	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
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.1
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.1
Emergency Schedule (EmS) - Fire	: F-D
Emergency Schedule (EmS) - Spillage	: S-U
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable
Transport by sea (IMDG)	: Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s)	
Transport by road/rail (ADR/RID)	: P200
Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft	· Forbidden
eassenger and Largo Alignat	

Passenger and Cargo Aircraft

: Forbidden.



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-
: 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 container 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.
x II of MARPOL 73/78 and the IBC Code
Not applicable.
tion
ulations/legislation specific for the substance or mixture
: None.
: Covered.
: Ensure all national/local regulations are observed.
A CSA does not need to be carried out for this product.
A CSA does not need to be carried out for this product.
A CSA does not need to be carried out for this product. : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.
<ul> <li>Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.</li> <li>ATE: Acute Toxicity Estimate</li> </ul>
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Full wording of relevant H Statements and classification codes

Flam. Gas 1	Flammable gases, Category 1
Press. Gas (Comp.)	Gases under pressure: Compressed gas
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.



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

#### SDS\_Ind.Mix\_066

## Argomix EH 2505

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.