

Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000196

Alumaxx Plus

SECTION 1: Identificat	on of the substance/m	ixture and of the company/undertaking
1.1. Product identifier		
Product form		Mixture
Trade name		Alumaxx Plus
SDS code		MSDS.000196
		ixture and uses advised against
Relevant identified uses	:	Industrial and professional uses. Perform risk assessment prior to use.
Uses advised against		Shield gas for welding processes. Consumer use.
osos advisca against		Uses other than those listed above are not supported, contact your supplier for more information on other
		uses.
1.3. Details of the supplier	r of the safety data sheet	
Sapio Produzione Idrogeno Oss		
Via S. Pellico, 48		
20900 Monza		
T +39 039 836068 www.sapio.it		
E-mail address of competent pe	erson responsible for the SDS :	sds@sapio.it
1.4. Emergency telephone	•	
Emergency telephone number		+39 0295705444 (24/7)
SECTION 2: Hazards id	entification	
2.1. Classification of the s	ubstance or mixture	
2.1. Classification of the s Classification according to Re		[CLP]
Classification according to Re Physical hazards	egulation (EC) No. 1272/2008	
Classification according to Re Physical hazards 2.2. Label elements	egulation (EC) No. 1272/2008 Gases under pressure : Comp	pressed gas H280
Classification according to Re Physical hazards 2.2. Label elements Labelling according to Regula	egulation (EC) No. 1272/2008 Gases under pressure : Comp	pressed gas H280
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Classification according to Re Physical hazards 2.2. Label elements Labelling according to Regula Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	egulation (EC) No. 1272/2008 Gases under pressure : Comp ation (EC) No. 1272/2008 [CLF :	P] GHS04 H280
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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	70	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

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 m	easures	
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. Product does not burn, use fire control measures appropriate for the surrounding fire.
Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the substan	<u>ce or mixture</u>
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 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	 In confined space use self-contained breathing apparatus. 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.



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SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures		
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	t and cleaning 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 Safe handling of the gas receptacle	 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. 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. Avoid release of product into work area. Do not breathe gas. Avoid release of product into work area. 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 bench 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 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.	
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.	



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7.3. Specific end use(s)			
	None.		
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
OEL (Occupational Exposure Limits)	: None available.		
DNEL (Derived-No Effect Level)	: None available.		
PNEC (Predicted No-Effect Concentration)	: None available.		
8.2. Exposure controls			
8.2.1. Appropriate engineering controls			
	Provide adequate general and local exhaust ventilation. 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.		
8.2.2. Individual protection measures, e.g. personal prot	ective 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, performance level 1 or higher. 		
Other	 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 rust 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			
	None necessary.		
SECTION 9: Physical and chemical properti	es		
9.1. Information on basic physical and chemical	properties		

Appearance	-	
	: Gas.	
- Colour	: Colourless.	
Odour	: Odourless.	
	Odour threshold is subjective and inadequate to wa	rn 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.	
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.	
Sapio Produzione Idrogeno Ossigeno Srl	EN (English)	MSDS.000196



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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 class	sses
Explosion limits	: Non flammable.
Oxidising properties	: No oxidising properties.
9.2.2. Other safety characteristics	
Other data	: None.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
	Data for mixture are not available.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
Reactivity	: None.
10.4. Conditions to avoid	
	Avoid moisture in installation systems.
10.5. Incompatible materials	
	For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	
	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
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	No known effects from this product.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.	
11.2. Information on other hazards Other information	: The substance/mixture has no endocrine disrupting properties.	
SECTION 12: Ecological information		

12.1. Toxicity



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Assessment	: No ecological damage caused by this product.
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.
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.
12.4. Mobility in soil	
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	: No effect on the ozone layer.
Effect on global warming	: No known effects from this product.
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
	May be vented to atmosphere in a well ventilated place.
	Do not discharge into any place where its accumulation could be dangerous.
	Return unused product in original container to supplier.
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
13.2. Additional information	External treatment and disparal of wasta about a comply with applicable local and/or national regulation
	External treatment and disposal of waste should comply with applicable local and/or national regulation
CECTION 44. Transmort information	
SECTION 14: Transport Information	
i de la companya de l	
14.1. UN number or ID number	
14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN	: 1956
14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No.	: 1956
14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name	: 1956 : COMPRESSED GAS, N.O.S. (Argon, Helium)
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)	
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)	: COMPRESSED GAS, N.O.S. (Argon, Helium)
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)	: COMPRESSED GAS, N.O.S. (Argon, Helium) : Compressed gas, n.o.s. (Argon, Helium)
SECTION 14: Transport information 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG) 14.3. Transport hazard class(es)	: COMPRESSED GAS, N.O.S. (Argon, Helium) : Compressed gas, n.o.s. (Argon, Helium)
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)	: COMPRESSED GAS, N.O.S. (Argon, Helium) : Compressed gas, n.o.s. (Argon, Helium)
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)	: COMPRESSED GAS, N.O.S. (Argon, Helium) : Compressed gas, n.o.s. (Argon, Helium)
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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)	 COMPRESSED GAS, N.O.S. (Argon, Helium) Compressed gas, n.o.s. (Argon, Helium) COMPRESSED GAS, N.O.S. (Argon, Helium)
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14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. 14.2. UN proper shipping name Transport by road/rail (ADR/RID) Transport by sea (IMDG) 14.3. Transport hazard class(es) Labelling Transport by road/rail (ADR/RID) Class Classification code Hazard identification number	 COMPRESSED GAS, N.O.S. (Argon, Helium) Compressed gas, n.o.s. (Argon, Helium) COMPRESSED GAS, N.O.S. (Argon, Helium) <i>compressed gas</i> <i>compressed gas</i>
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	 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. 1 A
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	 COMPRESSED GAS, N.O.S. (Argon, Helium) Compressed gas, n.o.s. (Argon, Helium) COMPRESSED GAS, N.O.S. (Argon, Helium) <i>compressed gas</i> <i>compressed gas</i>



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Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable
Transport by air (ICAO-TI / IATA-DGR)	: 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	: 200.
Cargo Aircraft only	: 200.
Transport by sea (IMDG)	: P200
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment.
	Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event 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 Other information, restriction and prohibition regulations	 Contains no substance(s) listed on the REACH Candidate List. 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) National regulations	: Not covered.
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	: 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		
H280	Contains gas under pressure; may explode if heated.	
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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