

Safety data sheet

Complies with Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) 2015/830

ARGON 5.0

Issue date: 10/14/2021

Revision date: 10/14/2021

Version: 6.0

SDS reference: EIGA003A

	SECTION 1: Identification of the substance/mixture and company/undertaking						
		ce/mi	xture	and co	mpany	/undertaking	
1.1. Product identifie							
Trade name	ARGON						
MSDS No.	EIGA003A	EIGA003A					
Chemical description	CAC average and	7440 27	4				
	CAS number:	/440-37	-1				
	N°ONE: 1006 EC number: 2	21 147 0					
Registration number				evemnt fr	om registra	ation	
Chemical formula	Ar	Listed in Annex IV/V of REACH, exempt from registration Ar					
	ied uses of the substance o	r mixtu	re and u	ses advis	ed agains	t	
Relevant uses identified	Industrial and				-		
	Test or calibra	-		ry out a m	in analysis		
	Purge, dilutio						
	Protective gas			esses.			
	Laboratory us		01				
	Use in the ma	nufactur	e of elec	tronic or p	hotovoltai	c components.	
	Food applicat	ions					
	Contact the su		or more i	nformatio	n on use		
Uses advised against	Consumer use						
	arding the supplier of the sa	afety da	ita shee	<u>t</u>			
Company identification	SARL RAYAN						
	ZA Bethioua	Wilaya	of Oran	, Algeria			
	Tel: 041-79-						
	Fax: 041-79-	-32-23					
	<u>Contact@ra</u>	<u>yanox.c</u>	<u>0</u>				
	<u>sarlrayanox(</u>	@gmail.	com				
1.4. Emergency call n	<u>iumber</u>						
Emergency call number	Tel: +21365	550342					
SECTION 2: Hazard Id	dentification						
2.1. Classification of	the substance or mixture						
Classification according to Reg	ulation (EC) No. 1272/2008 [Cl	.P]					
Physical hazards Gas	under pressure: Compressed ga	as			H28	0	
2.2. Label elements							
Labeling according to Regulation	on (EC) No. 1272/2008 [CLP]						
Hazard pictograms (CLP)		$\mathbf{\wedge}$					
		GHS04					
		011504					
Signal word (CLP)		: Attent					
Hazard statements (CLP)	: H280 - Contains gas under pressure; may explode if heated.						
Precautionary statements (CLP)							
- Storage : P403 - Store in a well-ventilated area.							
2.3. Other dangers							
: Asphyxiant at high concentration.							
SECTION 3: Composi	tion/information on	ingre	dient	5			
3.1. <u>Substances</u>						1	
NAME	Product identifier		In	npurity		%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Argon	<u>(CAS No.) 7440-37-1</u> (<u>EC No.) 231-147-0</u>	<u>H2O</u> ≤3ppm	<u>02</u> ≤2ppm	<u>CnHm</u> <u>≤0.2ppm</u>	<u>N2</u> ≤5ppm	<u>>99,999</u>	Press. Gas (Ref. Liq.), H281

3.2. Mixtures: Not applicable

SECTION 4: First aid

	ARGON		
Rayan 🕲 X	AKGON	1 2.0	
Issue date: 10/14/2021 SDS reference: EIGA003A	Replaces sheet: 4.0	Revision date: 10/14/2021	Version: 6.0
4.1. Description of first aid			
- Inhalation	Individual autonomy Perform cardiopulmo	In uncontaminated area, putting on a breathing ap (ARI). Keep the victim warm and at rest. Call a doc onary resuscitation if the victim stops breathing. to a non-contaminated area.	
 Skin contact Eye contact Ingestion 	No adverse effects e Ingestion is not cons	xpected with this product. xpected with this product. idered a possible mode of exposure	
4.2. Most important symptoms and	May cause asphyxiat	Id ion at high concentrations. Symptoms may include im may not be aware of the asphyxiation.	e loss of consciousness or
4.3. Indication of any immediate m	nedical attention and special tre : None).	atment needed	
SECTION 5: Fire-fighting measu	res		
5.1. Extinguishing media			
 Suitable extinguishing agents Unsuitable extinguishing agents 5.2. Special hazards arising from th 	do not use a jet of water to ex	se fire-fighting measures appropriate for the surrou ttinguish	unding fire.
Specific risks Hazardous combustion products		ntainers to rupture and explode	
5.3. <u>Advice for firefighters</u> Specific methods	containers to ruptur allow watering wate If possible, stop the g Use water spray or c	edia suitable for the surrounding fire. Exposure to e. Cool exposed containers with water spray from a r used in emergency cases to flow into the gutters. gas flow. loud to reduce the fumes to the ground if possible m fire area if it can be done without risk.	a protected location. Do not
Special protective equipment for firefighters	Protective clothing a Standard EN 137 - Au	se a personal self-contained breathing apparatus (Ind self-contained breathing equipment for firefigh utonomous open circuit compressed air device witl otective clothing for firefighters. Standard EN 659:	ters h a full face mask.
SECTION 6: Measures to be tak			
6.1. <u>Personal precautions, protecti</u> For non-rescuers	Act according to the	rocedures local emergency plan.	
	Try to stop the leak Evacuate the area.		
	Ensure adequate air Use protective clothi		
	Prevent the produc accumulation could Stay upwind.	t from entering sewers, basements, pits, or an be dangerous.	y other location where its
For first aiders	Wear a self-containe that it is safe.	SDS for more information on personal protective e ed breathing apparatus (SCBA) when entering the a ould be used when asphyxiating gases may be rele	rea unless you have verified
6.2 Descritions for an ironments	See section 5.3 of th	e SDS for more information	aseu.
6.2. <u>Precautions for environmental</u> 6.3. <u>Methods and material for cont</u>	Try to stop the leak.		
6.4. <u>Reference to other SECTIONS</u>	Ventilate the area		
	See also sections 8 a	nd 13	
SECTION 7: Handling and stora	ge		
7.1. <u>Precautions for safe handling</u> Safety when using the product	The product must be	e handled in accordance with good industrial hygier	ne and safety procedures.
SARL RAYANOX ZA Bethioua Wilaya of Oran, Algeria. 041 – 74 – 93 -23/24	EN: French		2/7

Rayan	ARGO	ARGON 5.0				
L'Air & la Maniere Issue date: 10/14/2021 SDS reference: EIGA003A	Replaces sheet: 4.0	Revision date: 10/14/2021	Version: 6.0			
	Consider adding pr You ensure that th leaks, before use Do not smoke whil Use only specified temperature. Cont	appropriate experience and training should handle gates ressure safety valve(s) to the installation. The entire gas installation has been (or is regularly) c e handling the product. d equipment appropriate for this product and its act your gas supplier if in doubt.	hecked for the absence of			
	Use only with clear	-	ed for cylinder pressures			
Safety when handling the gas container	Refer to the suppli	row rising into the container.				
	To move the bottle etc.), designed for	rom physical damage, do not pull, roll, slide, drop es even a short distance, use a cart (bottle rolls, transporting bottles	- : • • • • • • • • • • • • • • • • • •			
	or placed in a conta	ection cap in place until the container is again secured ainer or placed in position for use. Inters any difficulty opening or closing the cylind				
	Never attempt to r Damaged faucets s	d contact the supplier epair or modify a container valve or its pressure relie hould be reported immediately to the supplier om containers clean and not contaminated, particula				
	If the container h	as been equipped with one, as soon as it has been equipped with one.				
	equipment.	er tap after each use and when empty, even if it ransfer gases from a bottle/container into another co				
	Never use a direct Do not remove or o	flame or electric heater to increase the pressure in th damage the labels put by the supplier to identify the o n being drawn into the container.	e container.			
7.2. <u>Conditions for safe storage, inc</u>		y to avoid a sudden build-up of pressure (water ham	mer).			
	Containers should	ulations and requirements for container storage. not be stored in conditions likely to aggravate corrosi vers or caps must be in place.	on.			
	Containers must be Containers in stock Store the containe In storage, separat	e stored in an upright position and secured to prevent should be periodically checked for general condition r in a well-ventilated area, at a temperature below 50 e flammable gases and other flammable materials	and absence of leaks. °C			
		areas not exposed to the risk of fire and away from so ombustible materials	ources of heat and ignition.			
7.3. <u>Specific end use(s)</u>	: None).					
SECTION 8: Exposure controls/p	ersonal protection					
8.1. <u>Control Settings</u> OEL (Occupational Exposure Limits)	: Not available.					
DNEL (Derived No Effect Dose) PNEC (Predicted No Effect Concentration(s))	: Not available. : Not available.					
8.2. <u>Exposure controls</u>						
8.2.1. Appropriate technical contro		ate exhaust ventilation locally and overall.				
	Pressure equipmer Gas detectors shou	nt should be checked regularly for leaks Ild be used when oxidizing gases are likely to be relea permits, e.g. for maintenance.	sed			
8.2.2. Personal protective equipme	A risk analysis of t	the use of the product must be conducted and doci				
Eye/face protection	identified risks. The Choose Personal P	e of the product in order to choose personal safety e following recommendations should be considered rotective Equipment that complies with recommende glasses and a face shield when transferring or disconnice	d EN/ISO standards.			
SARL RAYANOX		Individual eye protection - Specifications.	acting transfer lines.			
ZA Bethioua Wilaya of Oran, Algeria. 041 – 74 – 93 -23/24	EN. FIEIUI					

Rayan X ARGON 5.0					
L'Air & la Maniere Issue date: 10/14/2021 SDS reference: EIGA003A	Replaces sheet: 4.0	Revision date: 10/14/2021	Version: 6.0		
 Skin protection Hand protection Miscellaneous Respiratory protection Thermal risks 8.2.3. Ambient exposure controls 	Standard EN 388- Wear safety shoe Standard EN ISO 2 Self-contained bre in under-oxygena	- Autonomous open circuit compressed air device with revious sections.			
SECTION 9: Physical and chemica					
Information on essential physical and chemi Appearance Physical state at 20°C / 101.3kPa Color Smell Olfactory threshold pH Melting point / Freezing point Boiling point Flash point Evaporation rate Flammability (solid, gas) Explosive limits Vapor pressure [20°C] Vapor density Relative density, liquid (water=1) Relative density, gas (air=1) Water solubility Partition coefficient n-octanol/water (Log Kow) Auto-ignition temperature Viscosity Explosive properties Oxidizing properties Oxidizing properties Oxidizing properties Oxidizing properties Citical temperature [°C] Other data	: Gaseous : Colorless. : Not detectable b : Detection of thre overexposure : Not applicable to : -189°C : -186°C : Not applicable to : Not applicable to : Not applicable to : Non-flammable. : Non-flammable. : Not applicable. : Not applicable.	esholds by smell is subjective and inappropriate for wa o gases and gas mixtures. o gases and gas mixtures. o gases and gas mixtures.			
SECTION 10: Stability and reactiv	ity				
10.1. <u>Reactivity</u> 10.2. <u>Chemical stability</u> 10.3. <u>Possibility of hazardous reactions</u>	Stable under norm	ard other than the effects described in the sections bel nal conditions.	low		
10.4. <u>Conditions to avoid</u>	None).				
10.4. <u>Conditions to avoid</u> 10.5. <u>Incompatible materials</u> 10.6. <u>Hazardous decomposition produc</u>	Consult supplier f	installations. nation on compatibility, refer to ISO 11114. or specific recommendations			
zete: <u>margine a composition produc</u>					

SECTION 11: Toxicological information



ARGON 5.0

: No known effects with this product.

: No known effects with this product.

: No known effects with this product.

: No known effects with this product. : No known effects with this product.

: No known effects with this product.

: No known effects with this product.

: No known effects with this product.

: No known effects with this product.

This product is ecologically safe.

This product is ecologically safe.

This product is ecologically safe.

This product is ecologically safe

No data available. No data available.

No data available.

: Not applicable to gases and gas mixtures

Replaces sheet: 4.0

Revision date: 10/14/2021

: This product has no known toxicological effects.

Version: 6.0

11.1. Information on toxicological effects

acute toxicity Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Cell mutagenicity Carcinogenicity Toxic for reproduction: fertility Toxic for reproduction: fetus Specific target organ toxicity — single exposure Specific target organ toxicity — repeated exposure Inhalation hazard

SECTION 12: Ecological information

12.1. <u>Toxicity</u>

Assessment EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 Hours - fish [mg/l] **12.2.** <u>Persistence and degradability</u> Assessment **12.3.** <u>Bioaccumulation potential</u> Assessment **12.4.** <u>Mobility in the ground</u> Assessment **12.5.** <u>Results of PBT and VPVB assessments</u> Assessment **12.6.** <u>Other adverse effects</u>

Other adverse effects Effect on the ozone layer

Effect on global warming

Not classified as PBT or vPvB May cause frost damage to vegetation. : No effect on the ozone layer. : None).

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Can be placed in a well-ventilated area Do not discharge into any location where its accumulation could be hazardous. Return the uneaten product to the supplier in its original container 16 05 04: Gases in pressure vessels (including halons) containing substances Dangerous.

The treatment and disposal of waste by third parties must be in accordance with local and/or

List of hazardous waste

13.2. Further information

national legislation. SECTION 14: Transport information

14.1. <u>UN number</u> UN number 14.2. <u>UN proper shipping name</u> <u>Transport by road/rail (ADR/RID)</u> <u>Air transport (ICAO-TI / IATA-DGR)</u> <u>Transport by sea (IMDG)</u> 14.3. <u>Transport hazard class(es)</u>

Labeling

Transport by road/rail (ADR/RID) Class Classification code Danger no. Restriction of passage in tunnels Transport by sea (IMDG) Class or division / Subsidiary risk(s) SARL RAYANOX ZA Bethioua Wilaya of Oran, Algeria. O41-74-93-23/24

: 1006

COMPRESSED ARGON Argon, Compressed Argon, COMPRESSED



2.2: Non-flammable, non-toxic gases.

:2
: 1A
: 20
: E - Passage prohibited in category E tunnels.

: 2.2

EN: French

Rayan 🕲 X	ARGO	N 5.0			
Suc date: 10/14/2021 SDS reference: EIGA003A	Replaces sheet: 4.0	Revision date: 10/14/2021	Version: 6.0		
14.4. Packing group					
Transport by road/rail (ADR/RID)	: Not applicable				
Air transport (ICAO-TI / IATA-DGR)	: Not applicable				
Transport by sea (IMDG)	: Not applicable				
14.5. Environmental hazards					
Transport by road/rail (ADR/RID)	: None).				
Air transport (ICAO-TI / IATA-DGR)	: None).				
Transport by sea (IMDG)	: None).				
14.6. Special precautions to be tak					
Packaging instruction(s)					
Transport by road/rail (ADR/RID)	: P200				
Air transport (ICAO-TI / IATA-DGR)					
Passenger and cargo aircraft	: 200				
Cargo plane only	: 200				
Transport by sea (IMDG)	P200				
Precautionary measures for transport	Avoid transport in v	whicles where the load compartment is not separa	ated from the driver's cab.		
	the event of an acci	Ensure that the vehicle driver is aware of the potential hazards of the load and the steps the event of an accident or other emergency situation. Before transporting containers:			
	Ensure there is ade	quate ventilation.			
	Make sure containe	ers are firmly secured			
	Make sure the cylin	der valve is closed and not leaking			
	Make sure that the	faucet outlet protection cap (if it exists) is correct	ly in place.		
	Ensure that the tap	protection device (if it exists) is correctly put in pl	ace		
14.7. <u>Transport in bulk in accordan</u>		Convention and the IBC Code			
	: Not applicable.				
SECTION 15: Regulatory inform	nation				
Safety, health and environmental regula		substance or mixture			
EU regulations Employment restrictions	: None).				
Seveso Directive 2012/18/EU (Seveso III)	: Not covered				
National guidelines					
National regulations:	: Ensure that all nat	ional or local regulations are followed.			
Chemical Safety Assessment					
	:A Chemical Risk Ass	sessment (CSA) does not need to be carried out fo	ir this product.		
SECTION 16: Other informatio	n				
Indications of change	: None).				
Abbreviations and acronyms					
	ETA-Estimate of Acu	Jte Toxicity			
	CLP- Classification	Labeling Packaging - Regulation (EC) No 1272/20	008 relating to classification		
	labeling and packag REACH - Registratio 1907/2006 concern well as the restrictic		nemicals – Regulation (EC) I on of chemical substances,		
	European marketed	l chemical substances			
	CAS number - nume	erical identifier assigned by the Chemical Abstract	Service (USA)		
	PPE - Personal prote	C <i>i</i>			
			· · · · ·		
	LC50 - Lethal Conce	ntration - Lethal concentration for 50% of the pop	ulation tested		
	RMM-Risk Manager	nent Measures			

PBT - Persistent, Bioaccumulative and Toxic.

vPvB - very (very) Persistent and very (very) Bioaccumulative.

STOT - SE: Specific Target Organ Toxicity - Single Exposure; Specific target organ toxicity - Single exposure.

EN: French



ARGON 5.0

Replaces sheet: 4.0

Revision date: 10/14/2021

CSA - Chemical Safety Assessment EN - European Norm - European Standard UN - United Nations - United Nations ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association - International Air Transport Association IMDG Code - International Maritime Dangerous Goods Code - Code for maritime transport

: The risks of asphyxiation are often underestimated and must be emphasized during operator training.

Before using this product for a new application or for testing, a thorough material compatibility study and risk analysis should be performed.

The information given in this document is believed to be accurate at the time of printing.

Despite the care taken in drafting this document, no liability can be accepted in the event of damage or accident resulting from its use.

Training Tips

DISCLAIMER OF LIABILITY