Air Liquide

SAFETY DATA SHEET

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Revision date : 2023-01-19 Supersedes version of : 2021-09-20

Argon (refrigerated)

NOAL_0003B Country : FI / Language : EN

1.1. Product identifier	
Trade name SDS no Other means of identification	 Argon (refrigerated), Argon liquid, Alphagaz 1 Argon LGC, Argon HG liquid, Arcal 1 liquid NOAL_0003B Argon (refrigerated) CAS-No. : 7440-37-1 EC-No. : 231-147-0 EC Index-No. :
REACH registration No	: Listed in Annex IV / V REACH, exempted from registration.
Chemical formula	: Ar
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Relevant identified uses	 Industrial and professional uses. Perform risk assessment prior to use. Test gas/Calibration gas. Laboratory use. Contact supplier for more information on uses.
Uses advised against	: Consumer use. Uses other than those listed above are not supported, contact your supplier for more information on other uses.
1.3. Details of the supplier of the safety d	ata sheet
Company identification Supplier AIR LIQUIDE FINLAND OY Yrttipellontie 1 C 3 krs. 90230 OULU - FINLAND T +353 20 779 0580 info.finland@airliquide.com	
E-Mail address (competent person)	: eunordic-sds@airliquide.com
1.4. Emergency telephone number	
Emergency telephone number	 FI: Myrkytystietokeskus: 09-471 977 (suora) tai 09-4711 (vaihde) / EN: Poison Information Centre: 09-471 977 (direct) or 09-4711 (switchboard) Availability (24 / 7)

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards Gases under pressure : Refrigerated liquefied gas

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)	GHS04
Signal word (CLP)	: Warning
Hazard statements (CLP) Precautionary statements (CLP)	: H281 - Contains refrigerated gas; may cause cryogenic burns or injury.
- Prevention	 P282 - Wear cold insulating gloves and either face shield or eye protection. cold insulating gloves, face shield, eye protection. P282 - Wear cold insulating gloves and either face shield or eye protection.
- Response	 P336+P315 - Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice. P336+P315 - Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.
- Storage	: P403 - Store in a well-ventilated place.
2.3. Other hazards	
	Asphyxiant in high concentrations. Not classified as PBT or vPvB. The substance/mixture has no endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	Composition [V- %]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Argon (refrigerated)	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: REACH registration No: *1	100	Press. Gas (Ref. Liq.), H281

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.

3.2. Mixtures Not established.

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 : In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance. - Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. - Ingestion : Ingestion is not considered a potential route of exposure.



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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 substance or mixture Specific hazards : Exposure to fire may cause containers to rupture/explode. Hazardous combustion products 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. If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire. 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 release measures 6.1. Personal precautions, protective equipment and emergency procedures		
	Try to stop release.	
	Evacuate area.	
	Ensure adequate air ventilation.	
	Use protective clothing.	
	Prevent from entering sewers, basements and workpits, or any place where its	
	accumulation can be dangerous.	
	Stay upwind.	
	See section 8 of the SDS for more information on personal protective equipment	
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	

Oxygen detectors should be used when asphyxiating gases may be released. See section 5.3 of the SDS for more information.

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6.2. Environmental precautions

Try to stop release.

Liquid spillages can cause embrittlement of structural materials.

6.3. Methods and material for containment 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 : Do not breathe gas. Avoid release of product into atmosphere. 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. Safe handling of the gas receptacle Refer to supplier's container handling instructions. 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 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. 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. Systems under pressure should be regularily checked for leakages. Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities.	
8.2.2. Individual protection measures, e.g. perso	onal 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 goggles and a face shield when transfilling or breaking transfer connections. 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. Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves. 	
- Other	: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.	
Respiratory protection	 Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. 	
• 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	
- Physical state at 20°C / 101.3kPa	: Gas
- Colour	: Colourless.
Odour	: Odourless.
	Odour threshold is subjective and inadequate to warn of overexposure.
pH	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: -189 °C
	-189 °C
Boiling point	: -186 °C
Flash point	: Not applicable for gases and gas mixtures.
Flammability	: Non flammable.
Explosive limits	: Non flammable.
Lower explosion limit	: Not available

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Upper explosion limit	: Not available
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density	: Not applicable
Vapour density	: Not applicable for gases and gas mixtures.
Relative density, liquid (water=1)	: 1.4
Relative density, gas (air=1)	: 1.38
Water solubility	: 67.3 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for inorganic products.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity, kinematic	: Not applicable for gases and gas mixtures.
Particle characteristics	: Not applicable for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Oxidising properties Critical temperature [°C]	No oxidising properties.-122 °C
9.2.2. Other safety characteristics	
Molar mass	: 40 g/mol

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Gas group	: Press. Gas (Ref. Liq.)
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 described in sub-sections below.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
Reactivity	: None.
10.4. Conditions to avoid	
	None under recommended storage and handling conditions (see section 7).
	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.	

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Germ cell mutagenicity	: No known effects from this product.	
Carcinogenicity	: No known effects from this product.	
Foxic for reproduction : Fertility	: No known effects from this product.	
Foxic 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.	
11.2. Information on other hazards		
Other information	: The substance/mixture has no endocrine disrupting pro	operties.

SECTION 12: Ecological information		
12.1. Toxicity		
Assessment EC50 48h - Daphnia magna [mg/l]	No ecological damage caused by this product.No data available.	
EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l]	: No data available. : 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.	
<u>12.4. Mobility in soil</u>		
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	: Can cause frost damage to vegetation.	
Effect on the ozone layer	: No effect on the ozone layer.	
Effect on global warming	: No known effects from this product. None.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	 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. 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.
13.2. Additional information	
	External treatment and disposal of waste should comply with applicable local and/or national regulations.

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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)



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)) Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage

14.4. Packing group

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

14.5. Environmental hazards

Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

14.6. Special precautions for user

Packing Instruction(s)

•	
Transport by road/rail (ADR/RID)	: P
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 2
Cargo Aircraft only	: 2
Transport by sea (IMDG)	: P

2.2 : Non-flammable, non-toxic gases.

: ARGON, REFRIGERATED LIQUID

: ARGON, REFRIGERATED LIQUID

: Argon, refrigerated liquid

: 2

:

ЗA

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: C/E - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category E

- : 2.2
- : 2.2
- : F-C
- : S-V
- : Not established.
- : Not established.
- : Not established.
- : None.
- : None.
- : None.

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Special transport precautions	 Avoid transport on vehicles where the load space compartment. Ensure vehicle driver is aware of the potential here were 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 provide the secure valve protection device (where provide the secure valve protection device) 	azards of the load and knows what to do in vided) is correctly fitted.
14.7. Maritime transport in bulk accordin	a to IMO instruments	
	Not applicable.	
SECTION 15: Regulatory information	ation	
		ire
15.1. Safety, health and environmental re	ation egulations/legislation specific for the substance or mixtu	<u>ire</u>
15.1. Safety, health and environmental re	egulations/legislation specific for the substance or mixtu	<u>ire</u>
15.1. Safety, health and environmental re EU-Regulations Restrictions on use		ıre
15.1. Safety, health and environmental re EU-Regulations Restrictions on use Seveso Directive : 2012/18/EU (Seveso III)	egulations/legislation specific for the substance or mixtu	<u>ire</u>
15.1. Safety, health and environmental re EU-Regulations Restrictions on use Seveso Directive : 2012/18/EU (Seveso III) National regulations	egulations/legislation specific for the substance or mixtu : None. : Not covered.	<u>ıre</u>
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15.1. Safety, health and environmental re EU-Regulations Restrictions on use Seveso Directive : 2012/18/EU (Seveso III) National regulations Ensure all national/local regulations are obs Germany Water hazard class (WGK) National Rules and Recommendations	egulations/legislation specific for the substance or mixtu : None. : Not covered. erved. : WGK nwg, Non-hazardous to water (Classificati : [German regulations] BetriebssicherheitsV mit T 725 Ortsbewegliche Druckgasbehälter", TRBS 2 Gasen", GefahrstoffV mit Technischen Regeln O TRGS 407 "Tätigkeiten mit Gasen - Gefährdung	ion according to AwSV) RBSen insbesondere TRBS 3145 / TRGS 2141, BGRegel 500 Teil 2.33: "Umgang m Gefährliche Stoffe TRGS insbesondere
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SECTION 16: Other information	
Indication of changes	: Safety data sheet in accordance with commission regulation (EU) No 2020/878.

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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
0	training.
	For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at
	http://www.eiga.eu.
Further information	: Classification in accordance with the procedures and calculation methods of Regulation
	(EC) 1272/2008 (CLP).
	Key literature references and sources of data are maintained in EIGA doc 169 :
	'Classification and Labelling Guide', downloadable at http://www.Eiga.eu.

Full text of H- and EUH-statements	
H281	Contains refrigerated gas; may cause cryogenic burns or injury.
Press. Gas (Ref. Liq.)	Gases under pressure : Refrigerated liquefied 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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