

Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Date of issue: 01/04/2015 Supersedes: 01/08/2021 Revision date: 01/02/2023 Version: 7.0 Reference number: EIGA003B

Warning



1.1. Product identifier	
Trade name SDS no Other means of identification	 Argon (refrigerated) EIGA003B 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 substa	ance or mixture and uses advised against
Relevant identified uses Uses advised against	 Industrial and professional uses. Perform risk assessment prior to use. Test gas/Calibration gas. Purge gas, diluting gas, inerting gas. Shield gas for welding processes. Use for manufacture of electronic/photovoltaic components. Food applications. Contact supplier for more information on uses. 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 da IJSFABRIEK STROMBEEK N.V. Broekstraat, 70 BE– B-1860 Meise Belgique-Belgie T 32 2 272 41 34 - F 32 2 270 47 19 info@ysfab.be - www.ysfab.be	
1.4. Emergency telephone number	

SECTION 2: Hazards identification

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

H281



Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

2.2. Label elements

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

Hazard pictograms (CLP)

Hazard pictograms (CLP)	
	GHS04
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H281 - Contains refrigerated gas; may cause cryogenic burns or injury.
Precautionary statements (CLP)	
- Prevention	: 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/attention.
- Storage	: P403 - Store in a well-ventilated place.
2.3. Other hazards	

Asphyxiant in high concentrations.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	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.

Not applicable

*1: Listed in Annex IV / V REACH, exempted from registration.

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

3.2. Mixtures

SECTION 4: First aid me	asures
4.1. Description of first aid me	asures
- 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.
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.

Refer to section 11.

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

None.



Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1. Exunguishing 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 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. 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

For non-emergency personnel	: Act in accordance with local emergency plan.
	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.
	See section 5.3 of the SDS for more information.
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.



Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

SECTION 7: Handling and storage

7.1. Precautions for safe handling

7.1. Precautions for safe handling	
Safe use of the product	: 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 atmosphere.
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.
	Open valve slowly to avoid pressure shock.
7.2. Conditions for safe storage, including any inc	compatibilities
	For more guidance on the safe storage of liquid oxygen, liquid nitrogen or liquid argon, refer
	to EIGA Doc.115 "Storage of Cryogenic Air Gases at Users Premises", downloadable at
	http://www.eiga.eu and consult your supplier.
	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.
7.3. Specific end use(s)	

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL (Occupational Exposure Limits) : None avail	lable.
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DNEL (Derived-No Effect Level)

: None available.



Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

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. per	sonal protective equipment
• Eye/face protection	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. : Wear goggles and a face shield when transfilling or breaking transfer connections.
	Standard EN 166 - Personal eye-protection - specifications.
Skin protection Hand protection	. Monsulating aloves when herelling are contained
	 Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk. 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	 Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.
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	: No odour warning properties.
Melting point / Freezing point	: -189 °C
	-189 °C
Boiling point	: -186 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available.
Upper explosion limit	: Not available.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
рН	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: No reliable data available.
Water solubility [20°C]	: 67.3 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not available.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: 1.38
Particle characteristics	: Not applicable.



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9.2. Other information

Other data

9.2.1. Information with regard to physical hazard classes		
Explosive properties	: Not applicable.	
Explosion limits	: Non flammable.	
Oxidising properties	: Not applicable.	
Critical temperature [°C]	: -122 °C	
9.2.2. Other safety characteristics		
Molar mass	: 40 g/mol	
Evaporation rate	: Not applicable for gases and gas mixtures.	
Gas group	: Press. Gas (Ref. Liq.).	

: 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.
10.4. Conditions to avoid	
	Avoid moisture in installation systems.
10.5. Incompatible materials	
	For additional information on compatibility refer to ISO 11114.
	Materials such as carbon steel, low alloy carbon steel and plastic become brittle at low temperatures and are subject to failure. Use appropriate materials compatible with the cryogenic conditions present in refrigerated liquefied gas systems.
10.6. Hazardous decomposition products	
	None.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008	
Acute toxicity	: No known 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	: 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.
11.2. Information on other hazards	

No additional information available



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SECTION 12: Ecological information

12.1. Toxicity

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	
Assessment	:
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	: None.

3
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.
External treatment and disposal of waste should comply with applicable local and/or national regulations.

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN UN-No. : 1951



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According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

	14.2. UN	proper	shipping	name
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Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR) Transport by sea (IMDG)

- : ARGON, REFRIGERATED LIQUID
- : Argon, refrigerated liquid
- : ARGON, REFRIGERATED LIQUID

14.3. Transport hazard class(es)

22: Non-flammable, non-toxic gases. Transport by road/rail (ADR/RID) Class 2 Classification code 3A Hazard identification number 22 Transport by air (ICAO-TI / IATA-DGR) Class / Div. (Sub. risk(s)) Class / Div. (Sub. risk(s)) 2.2 Transport by air (ICAO-TI / IATA-DGR) 2.2 Class / Div. (Sub. risk(s)) 2.2 Transport by sea (MDG) 2.2 Emergency Schedule (EmS) - Fire 2.2 Emergency Schedule (EmS) - Fire F-C Emergency Schedule (EmS) - Spillage 3.8 Transport by road/rail (ADR/RID) 1. Not applicable. Transport by sea (IMDG) 1. None. Transport by sea (IMDG) 1. None. Transport by sea (IMDG) 1. None. Transport by sea (IMDG) 2.02. Transport by sea (IMDG) 2.02. Transport by sea (IMDG) 2.02. Transport by	Labelling	
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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	Cargo Aircraft only	: 202.
compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in	Transport by sea (IMDG)	: P203.
the event of an accident or an emergency.	Special transport precautions	compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in
Before transporting product containers:		
- Ensure there is adequate ventilation.		

- 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.



Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations	
Restrictions on use	: None.
Other information, restriction and prohibition	: Argon (refrigerated) is not subject to Regulation (EU) No 649/2012 of the European
regulations	Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.
National regulations	
Water hazard class (WGK)	: nwg - Non-hazardous to water.
Kenn-Nr.	: 1348
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.

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 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 t
	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 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



Argon (refrigerated)

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Reference number: EIGA003B

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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