

Ar-He

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: AWO026 Issue date: 1/23/2024 Revision date: 1/23/2024 Supersedes version of: 5/21/2013 Version: 2.2

Warning



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

SDS no

: AWO026

1.2. Relevant identified uses of the substance 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.

1.3. Details of the supplier of the safety data sheet

Woikoski Oy PL1 52020 Woikoski, Finland Finland T +358 40 166 2023 asiakaspalvelu@woikoski.fi, www.woikoski.fi

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
	Myrkytystietokeskus Giftinformationscentralen, Poison Information Centre	P.O.B 790 (Tukholmankatu 17) HUS SF - 00029 Helsinki	+358 9 471 977	

SECTION 2: Hazar	ds identification
2.1. Classification of the	ne substance or mixture
Classification accordir	ig to Regulation (EC) No. 1272/2008 [CLP]
Physical hazards	Gases under pressure : Compressed gas H280
2.2. Label elements	
Labelling according to	Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLF	c) : GHS04
Signal word (CLP)	: Warning
Hazard statements (CLF Precautionary statement	
- Storage	: P410+P403 - Protect from sunlight. Store in a well-ventilated place.



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2.3. Other hazards

Asphyxiant in high concentrations.

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] ATE, EUH-statements, M-Factors
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 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	: 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 attentio	n and special treatment needed
	None.

SECTION 5: Firefighting measured	res
5.1. Extinguishing media	
 Suitable extinguishing media Unsuitable extinguishing media 	Water spray or fog.Do not use water jet to extinguish.
5.2. Special hazards arising from the su	bstance or mixture
Specific hazards Hazardous combustion products	Exposure to fire may cause containers to rupture/explode.None.



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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.
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 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.

SECTION 6: Accidenta	I release measures
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6.1. Personal precautions, protective equipment and emergency procedures

Try to stop release. Evacuate area. Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation.

6.2. Environmental precautions

Try to stop release.

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 sto	orage
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.



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woiкosкi 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.
	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 conten of the container. Containers should be stored in the vertical position and properly secured to prevent them from falling over.
7.2. Conditions for safe storage, inc	cluding 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.
7.3. Specific end use(s)	
	None.
SECTION 8: Exposure control	ols/personal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
3.2.1. Appropriate engineering cont	rols
····	Provide adequate general and local exhaust ventilation. Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). 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 measure	es, e.g. personal protective equipment
-	A risk assessment should be conducted and documented in each work area to assess the ricks related to the use of the product and to collect the DDE that matches the related to the use of the product and to collect the DDE that matches the related to the product and to collect the product and to coll

	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.

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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 necessary.
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: 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.
Melting point / Freezing point	: Not applicable for 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	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable for gas mixtures.
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not applicable for gas mixtures.
Viscosity, kinematic	: Not applicable.
Water solubility [20°C]	: Mixture is partially soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not available
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Lighter or similar to air.
Particle characteristics	: Not applicable.
9.2. Other information	
9.2.1. Information with regard to physical haza	ITO CIASSES

3.2.1. Information with regard to physical hazard classes	
Explosive properties	: Not applicable.
Explosion limits	: Not applicable for gas mixtures.
Oxidising properties	: None.
9.2.2. Other safety characteristics	

Molar mass: Not applicable for gas mixtures.Evaporation rate: Not applicable for gas mixtures.Other data: None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below. None.

10.2. Chemical stability

Stable under normal conditions.



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10.3. Possibility of hazardous reactions	
	None.
10.4. Conditions to avoid	
	None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials	
	None.
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	: 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

SECTION 12: Ecological information	
12.1. Toxicity	

Assessment	: Classification criteria are not met.
EC50 48h - Daphnia magna	: No data available.
EC50 72h Algae	: No data available.
LC50-96 h - fish	: No data available.

Argon (7440-37-1)

EC50 48h - Daphnia magna	No data available.
EC50 72h Algae	No data available.
LC50-96 h - fish	No data available.

Helium (7440-59-7)

EC50 48h - Daphnia magna	No data available.
EC50 72h Algae	No data available.
LC50-96 h - fish	No data available.



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12.2. Persistence and degradability	
Assessment	: No data available.
12.3. Bioaccumulative potential	
Assessment	: No data available.
12.4. Mobility in soil	
Assessment	: No data available.
12.5. Results of PBT and vPvB assessment	
Assessment	: No data available.
12.6. Endocrine disrupting properties	
Assessment	:
12.7. Other adverse effects	
Effect on the ozone layer	: None.
Effect on global warming	: No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

	Contact supplier if guidance is required.
	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 more guidance on suitable disposal methods.
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

None.

SECTION 14: Transport information

14.1. UN number or ID number	
In accordance with ADR / RID / IMDG / IATA / ADN UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Argon, Helium)
14.3. Transport hazard class(es)	
Labelling	: 2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID)	
Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
14.4. Packing group	
Transport by road/rail (ADR/RID)	: Not applicable.
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable.
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Transport by sea (IMDG)

: Not applicable.

: None.

: None.

: None.

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)

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 on the REACH candidate list. Ensure all national/local regulations are observed. Contains no substance subject to Regulation (EU) No 649/2012 of the European 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	
No additional information available	
15.2. Chemical safety assessment	
	A CSA does not need to be carried out for this product.

SECTION 16: Other information	
Indication of changes	: Safety data sheet in accordance with commission regulation (EU) No 2020/878.
Training advice Further information	 Receptacle under pressure. This Safety Data Sheet has been established in accordance with the applicable European Union legislation. 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



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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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