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SECTION 10: Stability and reactivity (....)

- Considered stable under normal conditions

10.6 Hazardous decomposition products

- No hazardous decomposition products known
-

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

- Acute Toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	LD ₅₀ (oral, rat)	LC ₅₀ (inhalation, rat)	LD ₅₀ (dermal, rabbit)
Argon	No data available	No data available	No data available
Helium	No data available	No data available	No data available

- Skin corrosion/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Argon	No data available
Helium	No data available

- Serious eye damage/irritation

Based on available data, the classification criteria are not met

Substances

Chemical Name	Irritation/corrosion
Argon	No data available
Helium	No data available

- Respiratory or skin sensitisation

Based on the available data, the classification criteria are not met

Substances

Chemical Name	Skin sensitisation	Respiratory sensitisation
Argon	No data available	No data available
Helium	No data available	No data available

- Germ cell mutagenicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	Toxicity - In Vitro	Toxicity - In Vivo
Argon	No data available	No data available
Helium	No data available	No study available

- Carcinogenicity

Based on available data, the classification criteria are not met

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SECTION 11: Toxicological information (....)

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Argon	No data available	No data available	No data available
Helium	No data available	No data available	No data available

- Reproductive toxicity

Based on available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Argon	No data available	No data available	No data available
Helium	No data available	No data available	No data available

- Specific target organ toxicity (STOT) - single exposure

Based on the available data, the classification criteria are not met

- Specific target organ toxicity (STOT) - repeated exposure

Based on the available data, the classification criteria are not met

Substances

Chemical Name	NOAEL (oral, rat)	NOAEC (inhalation, rat)	NOAEL (dermal, rat)
Argon	No data available	No data available	No data available
Helium	No data available	No data available	No data available

- Aspiration hazard

Based on the available data, the classification criteria are not met

- Contact with eyes

No hazard expected under normal conditions of use

- Contact with skin

No hazard expected under normal conditions of use

- Ingestion

No hazard expected under normal conditions of use

- Inhalation

Danger of suffocation at high concentrations due to oxygen displacement

Exposure to oxygen deficient atmosphere may cause the following symptoms: dizziness, salivation, nausea, vomiting, loss of mobility/consciousness.

Asphyxiation may bring about unconsciousness without warning and so rapidly that victim may be unable to protect themselves.

11.2 Information on other hazards

- Does not contain any substances with endocrine disrupting properties

SECTION 12: Ecological information

12.1 Toxicity

- Based on available data, the classification criteria are not met

Substances

Chemical Name	LC ₅₀ (fish)	EC ₅₀ (aquatic invertebrates)	EC ₅₀ (aquatic algae)
Argon	No data available	No data available	No data available
Helium	No data available	No data available	No data available

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SECTION 12: Ecological information (....)

12.2 Persistence and degradability

- No data available

Substances

Chemical Name	Biodegradation
Argon	No data available
Helium	No data available

12.3 Bioaccumulative potential

- Bioaccumulation is not expected

Substances

Chemical Name	Bioconcentration Factor (BCF)	Log Kow
Argon	No data available	No data available
Helium	No data available	No data available

12.4 Mobility in soil

- No data available

Substances

Chemical Name	Adsorption/desorption
Argon	No data available
Helium	No data available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Endocrine disrupting properties

- No information available

12.7 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Disposal should be in accordance with local, state or national legislation
- Cylinders should be returned to suppliers

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)
- Hazardous Property Code(s): None assigned

SECTION 14: Transport information


14.1 UN number or ID number

- UN No.: 1956

SECTION 14: Transport information (....)

14.2 UN proper shipping name

- Proper Shipping Name: COMPRESSED GAS, N.O.S. (Argon, Helium)

14.3 Transport hazard class(es)

- Hazard Class: 2.2

14.4 Packing group

- Packing Group: Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- 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.
- Avoid transport on vehicles where the load space is not separated from the driver's compartment.
- Before transporting product containers ensure there is adequate ventilation and:
 - they are firmly secured and the cylinder valve is closed and not leaking;
 - the valve outlet cap nut or plug (where provided) is correctly fitted;
 - the valve protection device (where provided) is correctly fitted.
- The transportation information is not intended to convey all specific regulatory data relating to this material.
- For complete transportation information, contact a SGS Gases customer service representative.

14.7 Maritime transport in bulk according to IMO instruments

- Not applicable

14.8 Road/Rail (ADR/RID)

- ADR UN No.: 1956
- Proper Shipping Name: COMPRESSED GAS, N.O.S. (Argon, Helium)
- ADR Hazard Class: 2
- ADR Packing Group: Not applicable
- Tunnel Code: (E)

14.9 Sea (IMDG)

- IMDG UN No.: 1956
- Proper Shipping Name: COMPRESSED GAS, N.O.S. (Argon, Helium)
- IMDG Hazard Class: 2.2
- IMDG Packing Group.: Not applicable

14.10 Air (ICAO/IATA)

- ICAO UN No.: 1956
- Proper Shipping Name: COMPRESSED GAS, N.O.S. (Argon, Helium)
- ICAO Hazard Class: 2.2
- ICAO Packing Group: Not applicable

SECTION 15: Regulatory information

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 (as amended by Regulation (EU) 2020/878) and UK REACH
- The GB Classification, Labelling and Packaging Regulation (GB CLP) applies in Great Britain
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- Seveso III Directive (2012/18/EU, Dangerous Substances in Annex I: None

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SECTION 15: Regulatory information (....)

- Restrictions on use according to Annex XVII to REACH Regulation: None

15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out
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SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Sources of data: Information from published literature and company data

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

- Press. Gas, H280: Classification based on test data

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- H280: Contains gas under pressure; may explode if heated

Acronyms

- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level
- EC: European Community
- EC₅₀: Effective Concentration, 50%
- GHS: Globally Harmonised System
- LC₅₀: Lethal Concentration, 50%
- LD₅₀: Lethal Dose, 50%
- NOAEC: No observed adverse effect concentration
- NOAEL: No observed adverse effect level
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- PNEC: Predicted No-Effect Concentration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
- SCL: Specific Concentration Limit
- SVHC: Substances of Very High Concern
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
