



ACCORDING TO US CFR 1910.1200

**1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

## 1.1 Product identifier

Product Name	GAS MIXTURE (HELIUM-ARGON)
Synonym(s)	HELIUM-ARGON
CAS No.	Mixture.
EC No.	Mixture.

## 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Industrial gas.
Uses Advised Against	Not known.

## 1.3 Details of the supplier of the safety data sheet

Company Identification	Hudson Technologies Company
Address	PO Box 1541 One Blue Hill Plaza Pearl River, New York USA
Postal code	10965
Telephone	+1 (800) 953 2244
Fax	+1 (845) 512 6070
E-mail	<a href="mailto:information@hudsontech.com">information@hudsontech.com</a>

## 1.4 Emergency telephone number

Company	+1 (800) 501 4376
CHEMTREC (U.S.)	+1 (800) 424 9300
INTERNATIONAL	+1 (703) 527 3887

## 2. SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

US CFR 1910.1200 Gases under pressure; Press. Gas; Compressed gas.

### 2.2 Label elements

Product Name GAS MIXTURE (HELIUM-ARGON)

### Hazard Pictogram(s)



GHS04

### Signal Word(s)

Warning.

### Hazard Statement(s)

H280: Contains gas under pressure; may explode if heated.  
OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

### Precautionary Statement(s)

P202: Do not handle until all safety precautions have been read and understood.  
P271+P403: Use and store only outdoors or in a well-ventilated place.  
P304, P340, P313: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.  
P410+P403: Protect from sunlight. Store in a well-ventilated place.

### 2.3 Other hazards

May cause asphyxiation when concentrations are sufficient to reduce oxygen below safe breathing levels.

### 2.4 Additional Information

CGA-PG05: Use a back flow preventive device in the piping.  
CGA-PG10: Use only with equipment rated for cylinder pressure.  
CGA-PG06: Close valve after each use and when empty.  
CGA-PG02: Protect from sunlight when ambient temperature exceeds 52 °C (125 °F).  
CGA-PG27: Read and follow the Safety Data Sheet (SDS) before use.  
This SDS is available in languages other than English.



### 5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep containers cool by spraying with water if exposed to fire.

## 6. SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate area. Ensure adequate ventilation. Avoid breathing gas.  
Wear suitable respiratory protection.

### 6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses.

### 6.3 Methods and material for containment and cleaning up

Stop leak if safe to do so. Allow small spillages to evaporate provided there is adequate ventilation. Ventilate area.

### 6.4 Reference to other sections

See Also Section 8, 13.

## 7. SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Provide adequate ventilation. Avoid breathing gas. Wear suitable respiratory protection. Do not drag, roll, slide or drop cylinders. Use a suitable hand truck design for cylinder movement. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object into valve cap openings. Doing so may damage valve causing a leak to occur. Secure cylinders in an upright position at all times, close all valves when

not in use. Keep closed even when empty. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

	Protect from sunlight. Store in a well-ventilated place.
Storage temperature	< 125 °F (52 °C)
Storage life	Stable under normal conditions.
Incompatible materials	None.

**8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1 Control parameters

Occupational Exposure Limits    None assigned.

8.2 Exposure controls

Appropriate engineering controls    Ensure adequate ventilation.

Personal protection equipment



Eye Protection

Wear suitable eye/face protection.



Skin protection

Wear suitable gloves.



Respiratory protection

Wear suitable respiratory protective equipment if exposure to high levels of material is likely.

Thermal hazards    Not applicable.

**9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Information on basic physical and chemical properties

Appearance    Gas.



SAFETY DATA SHEET

25-Jan-2017

	Color: Colorless.
Odor	Odorless.
Odor threshold	Not established.
pH	Not applicable.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Critical Temperature	Not available.
Flash Point	Not available.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-flammable.
Upper/lower flammability or explosive limits	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not applicable.
Auto-ignition temperature	Not available.
Decomposition Temperature (°C)	Not available.
Viscosity	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
9.2 Other information	Not known.

## 10. SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

### 10.4 Conditions to avoid

Keep away from heat and direct sunlight.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition product(s)

No hazardous decomposition products known.

**11. SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Low acute toxicity.
Acute toxicity - Skin Contact	Low acute toxicity.
Acute toxicity - Inhalation	Low acute toxicity.
Skin corrosion/irritation	Non-irritant.
Serious eye damage/irritation	Non-irritant.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	There is no evidence of mutagenic potential.
Carcinogenicity	No evidence of carcinogenicity.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	None anticipated.
STOT - repeated exposure	None anticipated.
Aspiration hazard	Not classified.

11.2 Other information

Not known.

**12. SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment	Not classified.
Compartment	
Toxicity - Terrestrial	Not classified.
Compartment	

12.2 Persistence and Degradation

Argon and Helium are inert gases. No adverse ecological effects are expected.

12.3 Bioaccumulative potential



Argon and Helium are inert gases. No adverse ecological effects are expected.

12.4 Mobility in soil

Not applicable.

12.5 Other adverse effects

None anticipated.

### 13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Containers must not be punctured or destroyed by burning, even when empty. Refer to manufacturer/supplier for information on recovery/recycling.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

### 14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 1956

14.2 UN proper shipping name

UN proper shipping name COMPRESSED GAS, N.O.S.

14.3 Transport hazard class(es)

ADR/RID Class 2.2

IMDG Class 2.2

IMDG EMS Not available.

ICAO/IATA

Excepted Quantities E1

Passenger and Cargo Aircraft

Limited Quantities Packing

Instructions

Cargo Aircraft Limited Quantities

Max net Qty

Special Provisions Not applicable.

Emergency Response 2L

Guidebook (ERG) Code

ADR Classification Code 1A



ADR HIN 20  
 ADR Transport Category 3  
 Tunnel Restriction Code E  
 Emergency Action Code 2TE  
 Advice on Additional Personal Protection (APP) Not applicable.  
 14.4 Packing group  
 Packing group Not applicable.  
 Labels 2.2



Special Provisions 274 655  
 Limited Quantities 120 m  
 Excepted Quantities E1

Mixed Packing Instructions for Packages P200  
 Special Packing Provisions for Packages Not applicable.

Mixed Packing Instructions for Packages MP9

14.5 Environmental hazards  
 Environmental hazards Not classified as a Marine Pollutant.

14.6 Special precautions for user  
 Special precautions for user Not known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
 Packing Instructions for Portable (M)

Tanks  
 Special Provisions for Portable Tanks Not applicable.

Tanks  
 Tank Code for Tanks CxBN(M)  
 Special Provisions for Tanks TA4 TT9  
 Vehicle for Tank Carriage AT

Special Provisions for Carriage - Packages Not applicable.



Special Provisions for Carriage - Not applicable.

Bulk

Special Provisions for Carriage - CV9 CV10 CV36

Loading, Unloading and Handling

Special Provisions for Carriage - Not applicable.

Operation

## 15. SECTION 15: REGULATORY INFORMATION

### 15.1 Federal

Toxic and hazardous substances All chemicals are not listed.

(29 CFR 1910; Subpart Z )

National emission standards for All chemicals are not listed.

hazardous air pollutants (40 CFR

61.01)

Title III Consolidated List of Lists All chemicals are not listed.

TSCA (Toxic Substance Control All chemicals listed.

Act)

CAA 602 - Ozone Depleting All chemicals are not listed.

Substances (ODS)

### 15.2 State

State Right to Know Lists Argon (CAS No.: 7440-37-1)

Listed in: New Jersey, Pennsylvania, Rhode Island, Minnesota.

Helium (CAS No.: 7440-59-7)

Listed in: New Jersey, Pennsylvania, Rhode Island, Minnesota.

Proposition 65 (California) All chemicals are not listed.

### 15.3 Other

OSPAR List of Chemicals for All chemicals are not listed.

Priority Action

NTP (National Toxicology All chemicals are not listed.

Program)

OSHA All chemicals are not listed.

(List of Highly Hazardous

Chemicals, Toxics and

Reactives)

IARC (International Agency for Research on Cancer) All chemicals are not listed.

**16. SECTION 16: OTHER INFORMATION**

The following sections contain 1-16. revisions or new statements:

NFPA		HMIS	
Health	0	Health	0
Fire	0	Flammability	0
Instability	0	Physical hazards	3

LEGEND:

Hazard Pictogram(s)



GHS04

Hazard Statement(s) H280: Contains gas under pressure; may explode if heated.

Precautionary Statement(s) P410+P403: Protect from sunlight. Store in a well-ventilated place.

Additional Information required by Federal Standard 313 Rev. E:

Contract or Solicitation Number: SPE4A6-16-D-0226

Prime Contractor: Hudson Technologies, Inc.

Prime Contractor CAGE: 7DSQ0

National Stock Number (NSN): 6830009387819

Specification Reference:

Disclaimers Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is



SAFETY DATA SHEET

25-Jan-2017

for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Hudson Technologies Company gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Hudson Technologies Company accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.