Safety Data Sheet

Argon, refrigerated liquid us cylinder Gas Alsip, IL



Section 1: Product and Company Identification

US Cylinder Gas

Alsip, IL

Product Code: Liquid Argon

Part Number: Argon Liquid

Synonyms: Cryogenic Argon, Liquid Ar

Recommended Use: Industrial Use. Food applications. Use as directed.

Usage Restrictions:

Section 2: Hazards Identification



Hazard Classification: Gases Under Pressure, H281

Simple Asphyxiant, OSHA-H01

Hazard Statements: H281: Contains refrigerated gas; may cause cryogenic burns or injury

CGA-HG01: MAY CAUSE FROSTBITE.

OSHA-H01: MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

Precautionary Statements

P202: Do not handle until all safety precautions have been read and understood.

P262: Do not get in eyes, on skin, or on clothing.

P280: Wear protective gloves, protective clothing, eye protection, and/or face

protection.

P282: Wear cold insulating gloves, face shield, and eye protection.

P403: Store in a well-ventilated place.

CGA-PG05: Use a back flow preventive device in the piping. CGA-PG06: Close valve after each use and when empty.

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CGA-PG10+CGA-PG20: Use only with equipment of compatible materials of construction and rated for cylinder pressure.

CGA-PG12: Do not open valve until connected to equipment prepared for use.

CGA-PG23: Always keep container in upright position. CGA-PG24: DO NOT change or force fit connections.

CGA-PG27: Read and follow the Safety Data Sheet (SDS) before use.

Section 3: Composition/Information on Ingredients

CAS # 7440-37-1

Chemical Substance	Chemical Family	Trade Names
ARGON, LIQUID	Inorganic gases	ARGON; AR; Argon (cryogenic liquid)

Section 4: First Aid Measures

IF ON SKIN: Get immediate medical advice/attention. Thaw frosted parts with lukewarm water. Do not rub affected area.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:

Use suitable extinguishing material for surrounding fire.

Protection of Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Not applicable

Section 6: Accidental Release Measures

Personal Precautions	Environmental Precautions	Methods for Containment
Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.	None known.	Stop leak if possible without personal risk.

Methods for Cleanup	Other Information
Leaks may be detected by a soapy-water solution.	

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Section 7: Handling and Storage

Handling	Storage
Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125F (52C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.	Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines	
ACGIH (simple asphyxiant)	

Engineering Controls

Handle only in fully enclosed systems.

Eye Protection	Skin Protection	Respiratory Protection
Splash resistant goggles.	Wear insulated clothing.	N/a
1	Wear insulated gloves.	

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

Physical State	Appearance	Color	Change in Appearance	Physical Form	Odor
Cryogenic Liquid	Colorless	Colorless	N/A	Gas	Odorless
Taste	Flash Point	Flammability	Partition Coefficient	Autoignition Temperature	Upper Explosive Limits
Tasteless	Not flammable			Nonflammable	Nonflammable
Lower Explosive Limits	Boiling Point	Freezing Point	Vapor Pressure	Vapor Density	Specific Gravity
Nonflammable	-303 F (-186 C)	-308 F (-189 C)	500 mmHg @ -190 C	1.38 (Air=1)	Not applicable
Water Solubility	pН	Odor Threshold	Evaporation Rate	Viscosity	Molecular Weight
3.36% @ 20 C	Not applicable	Not available	Not applicable	0.0225 cP @ 25 C	39.948
Molecular Formula	Density	Weight per Gallon	Volatility by Volume	Volatility	Solvent Solubility
AR	1.784 g/L @ 0 C	Not available	100%	Not applicable	Soluble : Organic solvents

Section 10: Stability and Reactivity

Stability	Conditions to Avoid	Incompatible Materials
Stable at normal temperatures and pressure.	Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.	No data available.

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Hazardous Decomposition Products	Possibility of Hazardous Reactions
No data available.	Will not polymerize.

Section 11: Toxicology Information

Acute Effects

Oral LD50	Dermal LD50	Inhalation
Not established	Not established	Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma

Eye Irritation	Skin Irritation	Sensitization
Frostbite	Frostbite	ASPHYXIANT, difficulty breathing

Chronic Effects

Carcinogenicity	Mutagenicity	Reproductive Effects	Developmental Effects
Not established	Not established	Not established	No data

Section 12: Ecological Information

Fate and Transport

Eco toxicity	Persistence / Degradability	Bioaccumulation / Accumulation	Mobility in Environment
Fish toxicity: Not available	Not available	Not available	Not available
Invertebrate toxicity: Not available			
Algal toxicity: Not available			
Phyto toxicity: Not available			
Other toxicity: Not available			

Section 13: Disposal Considerations

Dispose in accordance with all applicable regulations.

Section 14: Transportation Information

U.S. DOT 49 CFR 172.101

Proper Shipping Name	ID Number	Hazard Class or Division	Packing Group	Labeling Requirements	Passenger Aircraft or Railcar Quantity Limitations	Cargo Aircraft Only Quantity Limitations	Additional Shipping Description
Argon, Liquid	UN1951	2.2	Not applicable	Nonflammable gas	75 kg or L	150 kg	N/A

Canadian Transportation of Dangerous Goods

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Shipping Name	UN Number	Class	Packing Group / Risk Group
Argon, liquid	UN1951	2.2	Not applicable

Section 15: Regulatory Information

U.S. Regulations

CERCLA Sections	SARA 355.30	SARA 355.40
Not regulated.	Not regulated.	Not regulated.

SARA 370.21

Acute	Chronic	Fire	Reactive	Sudden Release
Yes	No	No	No	Yes

SARA 372.65

Not regulated.

OSHA Process Safety

Not regulated.

State Regulations

CA Proposition 65Not regulated.

Canadian Regulations

WHMIS	Classification

Α

National Inventory Status

US Inventory (TSCA)	TSCA 12b Export Notification	Canada Inventory (DSL/NDSL)
Listed on inventory.	Not listed.	Listed on inventory.

Section 16: Other Information

NFPA Rating	
HEALTH=3 FIRE=0 REACTIVITY=0 SPECIAL=SA	

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

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