

## 1-Product and Company Identification

<b>Product Name:</b> Compressed gas mixture	<b>Product Code:</b> SPG-2MX0003649
<b>Supplier's name:</b> Air Liquide Canada Inc.	<b>Manufacturer's name:</b> Air Liquide Canada Inc.
<b>Address:</b> 1250 Rene Levesque Blvd. West Suite 1700 <b>City:</b> Montreal <b>Province:</b> Quebec <b>Postal Code:</b> H3B 1E6	<b>Address:</b> 1250 Rene Levesque Blvd. West Suite 1700 <b>City:</b> Montreal <b>Province:</b> Quebec <b>Postal Code:</b> H3B 1E6
<b>Emergency phone:</b> (514) 878-1667	<b>Emergency phone:</b> (514) 878-1667

## 2-Composition / Information on Ingredients

Ingredient	Concentration	CAS number	LD50 (mg/kg)	LC50 (ppm)	Exposure limits ACGIH-TLV (TWA)
HELIUM	35 %	7440-59-7	None Reported	None Reported	None
ARGON	65 %	7440-37-1	None Reported	None Reported	None Listed

## 3-Hazards Identification

**EMERGENCY OVERVIEW**

**Warning!! High-pressure gas.**

Can cause rapid suffocation if oxygen levels fall below 18% (molar) at normal atmospheric pressure.

May cause dizziness and drowsiness.

Self-contained breathing apparatus maybe required by rescue workers.

<b>Effect of a single acute exposure:</b>	This mixture is non toxic, but if it is released in large amount in a confined area, it could displace the amount of oxygen in air necessary to support life.
<b>Inhalation:</b>	Effects of exposure to concentrations sufficient to displace oxygen in the air necessary for life are: dizziness, labored breathing and eventual unconsciousness, and death.
<b>Skin contact:</b>	None
<b>Ingestion:</b>	Ingestion of gas mixture is unlikely. Inhalation is the main route of entry.
<b>Eye contact:</b>	None
<b>Effect of repeated (chronic) overexposure:</b>	None
<b>Other effects of overexposure:</b>	None
<b>Medical conditions aggravated by overexposure:</b>	None
<b>Significant laboratory data with possible relevance to human health hazard evaluation:</b>	None
<b>Carcinogenicity:</b>	No.

## 4-First Aid Measures

PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO THIS MIXTURE. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.

<b>Inhalation:</b>	Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be assisted to an uncontaminated area, given resuscitation and supplemental oxygen. Further treatment should be symptomatic and supportive.
<b>Skin contact:</b>	Not applicable
<b>Ingestion:</b>	Not applicable
<b>Eye contact:</b>	Not applicable
<b>Notes to physicians:</b>	None

## 5-Fire Fighting Measures

<b>Conditions of flammability:</b>	Non flammable gas mixture.
<b>Means of extinction:</b>	Non flammable gas mixture.
<b>Flash point and method of determination:</b>	Non flammable gas mixture.
<b>Upper flammable limit:</b>	Non flammable gas mixture.
<b>Lower flammable limit:</b>	Non flammable gas mixture.
<b>Auto-ignition temperature:</b>	Non flammable gas mixture.
<b>Hazardous combustion products:</b>	None
<b>Explosion data -sensitivity to mechanical impact:</b>	Non flammable gas mixture.
<b>Explosion data -sensitivity to static discharge:</b>	Non flammable gas mixture.

## 6-Accidental Release Measures

<b>Leak and spill procedures:</b>	EVACUATE ALL PERSONNEL FROM AFFECTED AREA. Use appropriate protective equipment. If leak is on user's equipment, be certain to purge piping before attempting repairs. If leak is on a container or container valve contact the closest Air Liquide Canada location.
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## 7-Handling and Storage

<b>Handling procedures and equipment:</b>	USE ONLY IN WELL-VENTILATED AREAS. Valve protection caps must remain in place unless container is secured with valve outlet piped to the point of use. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into cylinder. Do not tamper with (valve) safety device. Close valve after each use and when empty. Do not use adaptors. Adaptors may be used in exceptional circumstances at filling plants under supervisor's strict
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	direction only.
<b>Storage requirements:</b>	Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 52°C. Cylinders must be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in - first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "No Smoking or Open Flames" signs in the storage or use area. There should be no sources of ignition in the storage or use area.
<b>WHMIS Classification:</b>	A

## 8-Exposure Controls / Personal Protection

<b>Engineering controls:</b>	Systems must be designed to adequately handle pressures involved.
<b>Personal protective equipment:</b>	Safety goggles or glasses. Safety shoes. Gloves, any material.

## 9-Physical and Chemical Properties

<b>Physical state:</b>	Gas under pressure.
<b>Odor and appearance:</b>	Colourless
<b>Specific gravity:</b>	0.95

Ingredient	Odor threshold	Boiling point (°C)	Freezing/melting point (°C)	pH	Coefficient water/oil distribution
HELIUM	N/A	-269	-271	N/A	Insoluble
ARGON	N/A	-185	-189	N/A	3.35% by Volume

## 10-Stability and Reactivity

<b>Chemical Stability:</b>	Stable.
<b>Incompatibility:</b>	
<b>Conditions of reactivity:</b>	
<b>Hazardous decomposition products:</b>	None

## 11-Toxicological Information

Ingredient	Component Toxicity
HELIUM	Asphyxiant
ARGON	Simple asphyxiant

## 12-Ecological Information

This mixture does not contain any Class I or Class II ozone-depleting chemicals. The components of this mixture are not listed as marine pollutant by DOT.

## 13-Disposal Considerations

<b>Waste disposal:</b>	DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. Return in the shipping container properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to Air Liquide Canada for proper disposal. For emergency disposal, contact the closest Air Liquide Canada location.
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## 14-Transport Information

<b>UN Identification Number:</b>	UN 1956, COMPRESSED GAS, N.O.S.
<b>Hazard Class Number:</b>	2.2
<b>Shipping information:</b>	Always secure cylinders in an upright position before transporting them. NEVER transport cylinders in trunks of vehicles, enclosed vans, truck cabs or in passenger compartments. Transport cylinders secured in open flatbed or in open pick-up type vehicles.

## 15-Regulatory Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

## 16-Other Information

PREPARED BY : AIR LIQUIDE CANADA INC.

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