SAFETY DATA SHEET



Flammable Gas Mixture: Argon 1-89.9% / Methane 10.1-99%

Section 1. Identification

GHS product identifier	: Flammable Gas Mixture: Argon 1-89.9% / Methane 10.1-99%
Other means of identification	: Not available.
Product type	: Gas.
Product use	: Synthetic/Analytical chemistry.
SDS #	: 018029
Supplier's details	: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
24-hour telephone	: 1-866-734-3438

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	: Extremely flammable gas. Contains gas under pressure; may explode if heated.
	May displace oxygen and cause rapid suffocation. May form explosive mixtures with air.
Precautionary statements	
General	: Read and follow all Safety Data Sheets (SDS'S) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back flow preventative device in the piping. Use only equipment of compatible materials of construction. Approach suspected leak area with caution.
Prevention	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Response	 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. In case of leakage, eliminate all ignition sources.
Storage	: Protect from sunlight. Store in a well-ventilated place.
Disposal	: Not applicable.
Hazards not otherwise classified	: In addition to any other important health or physical hazards, this product may displace oxygen and cause rapid suffocation.

Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of	: Not available.
identification	
Product code	: 018029

Ingredient name	%	CAS number
methane	10.1 - 99	74-82-8
Argon	1 - 89.9	7440-37-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. : As this product is a gas, refer to the inhalation section. Ingestion Most important symptoms/effects, acute and delayed Potential acute health effects Eve contact : Contact with rapidly expanding gas may cause burns or frostbite. Inhalation : No known significant effects or critical hazards. **Skin contact** : Contact with rapidly expanding gas may cause burns or frostbite. **Frostbite** : Try to warm up the frozen tissues and seek medical attention. : As this product is a gas, refer to the inhalation section. Ingestion

Over-exposure signs/symptoms

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Date	of i	ssue/	Date	of	revision	
------	------	-------	------	----	----------	--

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: Contains gas under pressure. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contact supplier immediately for specialist advice. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures For non-emergency personnel : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unprecessary and unprotected personnel from entering. Shut off all ignition

		sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	nt	ainment and cleaning up

Methous and materia	s for containment and cleaning up
Small spill	 Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment.
Large spill	 Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Use only non-sparking tools. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Eliminate all ignition sources. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F). Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits
ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential. ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant].

Appropriate engineering controls	other eng recomme vapor or o	with adequate ventilation. ineering controls to keep vended or statutory limits. The dust concentrations below n equipment.	vorker exposure to a he engineering contr	irborne contaminants ols also need to kee	s below any p gas,
Environmental exposure controls	they com cases, fu	s from ventilation or work p ply with the requirements o me scrubbers, filters or en cessary to reduce emission	of environmental prot gineering modification	ection legislation. In ons to the process eq	some
Individual protection meas	sures				
Hygiene measures	eating, sr Appropria Wash coi	nds, forearms and face the noking and using the lavate ate techniques should be us ntaminated clothing before are close to the workstation	ory and at the end of sed to remove poten reusing. Ensure tha	the working period. Itially contaminated c	lothing.
Eye/face protection	assessmo gases or	ewear complying with an a ent indicates this is necess dusts. If contact is possibl ssment indicates a higher c	ary to avoid exposu e, the following prote	re to liquid splashes, ection should be worr	mists, n, unless
Skin protection					
Date of issue/Date of revision	: 6/23/2021	Date of previous issue	: 3/1/2018	Version : 1	4/11

Section 8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	1	Gas.
Color	1	Not available.
Odor	1	Not available.
Odor threshold	1	Not available.
рН	1	Not available.
Melting point	:	-187.6°C (-305.7°F) This is based on data for the following ingredient: methane. Weighted average: -188.33°C (-307°F)
Boiling point	1	Not available.
Critical temperature	1	Lowest known value: -122.4°C (-188.3°F) (argon).
Flash point	1	Not available.
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive (flammable) limits	:	Not available.
Vapor pressure	1	Not available.
Vapor density	1	Highest known value: 1.66 (Air = 1) (argon). Weighted average: 1.08 (Air = 1)
Gas Density (lb/ft ³)	1	Weighted average: 0.06
Relative density	1	Not applicable.
Solubility	4	Not available.
Solubility in water	4	Not available.
Partition coefficient: n- octanol/water	:	Not available.
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Viscosity	:	Not applicable.
Flow time (ISO 2431)	:	Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
Incompatible materials	: Oxidizers
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	Contact with rapidly expanding gas may cause burns	or frostbite.
Inhalation	No known significant effects or critical hazards.	

Date o	of issue/	Date of	revision

Section 11. Toxicological information

Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Ingestion	: As this product is a gas, refer to the inhalation section.
Symptoms related to the phy	vsical, chemical and toxicological characteristics
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: No specific data.
Ingestion	: No specific data.
Delayed and immediate effect	ts and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.

: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Fertility effects

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
methane	1.09	-	low
Argon	0.74		low

Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Empty Airgas-owned pressure vessels should be returned to Airgas. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	DOT	TDG	Mexico	IMDG	ΙΑΤΑ
UN number	UN1954	UN1954	UN1954	UN1954	UN1954
UN proper shipping name	COMPRESSED GAS, FLAMMABLE, N. O.S. (argon, methane)				
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Additional information		
TDG Classification	:	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). <u>Explosive Limit and Limited Quantity Index</u> 0.125 <u>ERAP Index</u> 3000 <u>Passenger Carrying Vessel Index</u> Forbidden <u>Passenger Carrying Road or Rail Index</u> Forbidden
Special precautions for user	:	Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments	:	Not available.

Section 15. Regulatory information

Massachusetts : The following components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed. New Jersey : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON California Prop. 65 : The following components are listed: METHANE; ARGON California Prop. 65 : The following components are listed: METHANE; ARGON Chemical Weapon Convention List Schedules I, II & III Chemicals : Not listed. Not listed. : Stockholm Convention on Persistent Organic Pollutants Not listed. : Stockholm Convention on Persistent Organic Pollutants Not listed. : Not listed. Inventory list : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Japan : Japan inventory (ISKL): Not determined. Japan : All components are listed or exempted. Japan inventory (ISKL): Not determined. : Japan inventory (ISKL): Not determined. Japan inventory (ISKL): Not determined. : Japan inventory (ISKL): Not determined. Mew Zealand : All components are listed or exempted. Philippines <t< th=""><th>U.S. Federal regulations</th><th></th><th>a) CDR Exempt/Partial ex</th><th>-</th><th></th><th></th></t<>	U.S. Federal regulations		a) CDR Exempt/Partial ex	-		
Class I Substances Class I Substances Class II Substances DEA List I Chemicals DEA List I Chemicals EA List I Chemicals DEA List I Chemicals Commosliton/information on Ingredients ARA 302/304 Commosliton/information on Ingredients No products were found. SARA 304 RQ Easification EARA 304 RQ EARA 304 RQ Easification EARA 304 RQ EARA 304	(b) Hazardous Air		· · · ·	i naminadie sudsta	inces: methane	
Class II Substances DEA List I Chemicals : Not listed (Precursor Chemicals) DEA List I Chemicals : Not listed (Essential Chemicals) DEA List II Chemicals : Not listed (Essential Chemicals) DEA List II Chemicals : Not listed (Essential Chemicals) DEA List II Chemicals : Not listed (Essential Chemicals) DEA List II Chemicals : Not applicable. SARA 302 R0 : Not applicable. SARA 304 R0 : Not applicable. SARA 31121 Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations Massachusetts : The following components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON Pennsylvania Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Montreal Protocol on POPs and Heavy Metals Not listed. INVERTISE Australia : All components are listed or exempted. Canada : All components are listed or exempted. Listed : All c		: Not listed	t de la construcción de la const			
(Precursor Chemicals) : Not listed (Essential Chemicals) : Not listed SARA 302/304 Composition/information on Ingredients No products were found. : SARA 304 RQ : Not applicable. SARA 31/312 : Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations : No e of the components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; ARGON New Jersey : The following components are listed: METHANE; ARGON California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations : The following components are listed: METHANE; ARGON Chemical Weapon Convention List Schedules L II & III Chemicals : Not listed. Montreal Protocol : Not listed. Stockholm Convention on Prior Informed Consent (PIC) : Not listed. Not listed. : All components are listed or exempted. Canada : All components are listed or exempted. Canada : All components are listed or exempted. Chanada : All components are listed or exempted. Chanada : Al		: Not listed	t			
(Essential Chemicals) SARA 302/304 Composition/information on ingredients No products were found. SARA 304 RQ : Not applicable. SARA 311/312 Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations : The following components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; MARSH GAS; ARGON Pennsylvania : The following components are listed: METHANE; ARGON California Prop. 55 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chenical Weapon Convention List Schedules J. II & III Chemicals Not listed. Stockholm Convention on Pior Informed Consent (PIC) Not listed. Stockholm Convention on PIOPs and Heavy Metals Not listed. : INVECE Aarhus Protocol on POPs and Heavy Metals Not listed. : Inventory list : <t< td=""><td></td><td>: Not listed</td><td>Ŀ</td><td></td><td></td><td></td></t<>		: Not listed	Ŀ			
Composition/information on ingradients No products were found. SARA 304 RQ : Not applicable. SARA 311/312 Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations		: Not listed	t			
No products were found. SARA 304 RQ SARA 304 RQ SARA 311/312 Classification Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations Massachusetts State regulations Massachusetts State regulations The following components are listed: METHANE; MARSH GAS; ARGON New York State regulation State regulations California Prop. 65 The following components are listed: METHANE; ARGON Pennsylvania State require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I. II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Periosistent Organic Pollutants Not listed. INTERCE Aarhus Protocol on POPs and Heavy Metals Not listed. INTERCE Aarhus Protocol on POPs and Heavy Metals Not listed. INTERCE Aarhus Protocol on POPs and Heavy Metals Not listed. INTERCE Aarhus Protocol on POPs and Heavy Metals Not listed. Internetional are listed or exempted. Canada A All components are listed or exempted. Purples Aug an inventory (ISHL): Not determined. Apapan inventory (ISHL): Not determined. Public Aug and inventory (ISHL): Not determined. Public Public Aug and inventory (ISHL): Not determined. Public P	SARA 302/304					
SARA 304 RQ : Not applicable. SARA 311/312	Composition/information	on ingredien	<u>its</u>			
SARA 311/312 Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations	No products were found.					
Classification : Refer to Section 2: Hazards Identification of this SDS for classification of substance. State regulations Massachusetts : The following components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; MARSH GAS; ARGON New York : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Montreal Protocol on POPs and Heavy Metals Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Chana : All components are listed or exempted. China : All components are listed or exempted. China : Japan inventory (ISNE); Not determined. Japan : Japan inventory (ISNE); Not determined. Augara inventory (ISNE); Not determined. Japan inventory (ISNE); Not determined.<	SARA 304 RQ	: Not appli	cable.			
State regulations Massachusetts : The following components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; ARGON New Jersey : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON California Prop. 65	<u>SARA 311/312</u>					
Massachusetts : The following components are listed: METHANE; MARSH GAS; ARGON New York : None of the components are listed: METHANE; ARGON New Jersey : The following components are listed: METHANE; ARGON Pennsylvania : The following components are listed: METHANE; ARGON California Prop. 65 : The following components are listed: METHANE; ARGON California Prop. 65 : The following components are listed: METHANE; ARGON Chemical Weapon Convention List Schedules I, II & III Chemicals : Not listed. Montreal Protocol : Not listed. Not listed. : Stockholm Convention on Persistent Organic Pollutants Not listed. : Not listed. Muterdam Convention on Persistent Organic Pollutants : Not listed. Not listed. : Not listed. Inventory list : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Japan : Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. : Japan inventory (ISHL): Not determined. Japan : All components are listed or exempted. Furge : All components are listed or exempted.	Classification	: Refer to S	Section 2: Hazards Identifica	ation of this SDS for	classification of substance.	
New York None of the components are listed. New Jersey The following components are listed: METHANE; ARGON Pennsylvania The following components are listed: METHANE; ARGON California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. International requires and Heavy Metals Not listed. Inventory list Australia All components are listed or exempted. China All components are listed or exempted. China All components are listed or exempted. Japan inventory (ISH): Not determined. Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. All components are listed or exempted. 	State regulations					
New Jersey The following components are listed: METHANE; ARGON Pennsylvania The following components are listed: METHANE; ARGON California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Wottread Protocol on Persistent Organic Pollutants Not listed. Mottread Protocol on Persistent Organic Pollutants Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia All components are listed or exempted. China All components are listed or exempted. Lipapan inventory (ENCS): Not determined. Japan inventory (ISH): Not det	Massachusetts	: The follo	wing components are listed	I: METHANE; MARS	SH GAS; ARGON	
Pennsylvania : The following components are listed: METHANE; ARGON California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Montreal Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ISCS): Not determined. Japan : Japan inventory (ISCS): Not determined. Montreal Pointers : All components are listed or exempted. Mont	New York	: None of	the components are listed.			
California Prop. 65 This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Motterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. Mew Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	New Jersey	: The follo	wing components are listed	I: METHANE; ARGO	ON	
This product does not require a Safe Harbor warning under California Prop. 65. International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	Pennsylvania	: The follo	wing components are listed	I: METHANE; ARGO	ON	
International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Europe : All components are listed or exempted. Japan inventory (ISKL): Not determined. Japan inventory (ISKL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	<u>California Prop. 65</u>					
Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan : Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	This product does not r	require a Safe	Harbor warning under Cal	ifornia Prop. 65.		
Not listed. Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Lurope : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	International regulations					
Montreal Protocol Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Luope : All components are listed or exempted. Japan : Japan inventory (ISHL): Not determined. Japan : Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	Chemical Weapon Conver	ntion List Sch	nedules I, II & III Chemical	<u>s</u>		
Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ISHL): Not determined. Japan : All components are listed or exempted. Inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined.	Not listed.					
Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ISHL): Not determined. Japan : All components are listed or exempted. Inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined.	Montreal Protocol					
Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.						
Not listed. Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.	Stockholm Convention on	Parcistant (rganic Pollutante			
Rotterdam Convention on Prior Informed Consent (PIC) Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.			<u>Anganic i Onatanto</u>			
Not listed. UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.		Drier Inform	ed Concept (DIC)			
UNECE Aarhus Protocol on POPs and Heavy Metals Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted.			ed Consent (PIC)			
Not listed. Inventory list Australia : All components are listed or exempted. Canada : All components are listed or exempted. China : All components are listed or exempted. Europe : All components are listed or exempted. Japan : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.						
Inventory listAustralia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined.Japan inventory (ISHL): Not determined.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.		n POPs and	<u>Heavy Metals</u>			
Australia: All components are listed or exempted.Canada: All components are listed or exempted.China: All components are listed or exempted.Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.						
Canada:All components are listed or exempted.China:All components are listed or exempted.Europe:All components are listed or exempted.Japan:Japan inventory (ENCS): Not determined.Japan inventory (ISHL): Not determined						
China: All components are listed or exempted.Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.						
Europe: All components are listed or exempted.Japan: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.						
Japan: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.						
Japan inventory (ISHL): Not determined. New Zealand : All components are listed or exempted. Philippines : All components are listed or exempted.						
New Zealand: All components are listed or exempted.Philippines: All components are listed or exempted.	Japan					
	New Zealand	-	,			
Date of issue/Date of revision : 6/23/2021 Date of previous issue : 3/1/2018 Version : 1 9/11	Philippines	: All comp	oonents are listed or exemp	oted.		
	Date of issue/Date of revision	: 6/23/2021	Date of previous issue	: 3/1/2018	Version : 1	9/11

Section 15. Regulatory information

Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are active or exempted.
Viet Nam	: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.

Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

	JustificationCalculation methodOn basis of test data			
FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas				
History		· · ·		
Date of printing	: 6/23/2021			
Date of issue/Date of revision	: 6/23/2021			
Date of previous issue	: 3/1/2018			
Version	: 1			
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient			

Date of issue/Date of revision	: 6/23/2021	Date of previous issue	: 3/1/2018	Version :1	10/11
--------------------------------	-------------	------------------------	------------	------------	-------

Section 16. Other information

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

References

: Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.