

Safety Data Sheet P-18-2056 This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

Date of issue: 05/08/2015 Revision date: 12/20/2016 Supersedes: 03/09/2016

SECTION: 1. Product and compa	ny identification	
.1. Product identifier		
Product form	: Mixture	
Name	: AR - Methane 0.1 ppm - 10.00%	
Other means of identification	: Praxair P-5, Praxair P-10, Methane Argon Mixture	
	substance or mixture and uses advised against	
Jse of the substance/mixture	: Industrial use	
1.3. Details of the supplier of the sa		
	Praxair, Inc. 10 Riverview Drive Danbury, CT 06810-6268 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146 <u>www.praxair.com</u>	
1.4. Emergency telephone number		
Emergency number	: Onsite Emergency: 1-800-645-4633	
	CHEMTREC, 24hr/day 7days/week — Within USA: 1-800-424-9300, Outside USA: 001-703-527-3887 (collect calls accepted, Contract 17729)	
SECTION 2: Hazard identification		
2.1. Classification of the substance	or mixture	
GHS-US classification		
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-US)	: GHS04	
Signal word (GHS-US)	: WARNING	
Hazard statements (GHS-US)	: H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION	
Precautionary statements (GHS-US)	: CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F) P271+P403 - Use and store only outdoors or in a well-ventilated place	
2.3. Other hazards		
Other hazards not contributing to the classification	: Asphyxiant in high concentrations.	
2.4. Unknown acute toxicity (GHS U		
	No data available	
SECTION 3: Composition/Inform	ation on ingredients	
3.1. Substance		
	Not applicable	
3.2. Mixture		
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Name			Product identifier	%]
Argon			(CAS No) 7440-37-1	90 - 99.99999	
Methane		(CAS No) 74-82-8	0.00001 - 10]	
SECT	ION 4: First aid measures				
4.1.	Description of first aid measures				
	I measures after inhalation	: Remo give a physi	ove to fresh air and keep at rest in a p artificial respiration. If breathing is diffi cian.	osition comfortable cult, trained persor	e for breathing. If not breathing, anel should give oxygen. Call a
First-aid	l measures after skin contact	: Adve	rse effects not expected from this prod	duct.	
First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.					
First-aid	measures after ingestion	: Inges	estion is not considered a potential route of exposure.		
4.2.	Most important symptoms and effec	ts, both	acute and delayed		
		No ac	ditional information available		
4.3.	Indication of any immediate medical	attentio	n and special treatment needed		
None.					
SECT	ION 5: Firefighting measures				
5.1.	Extinguishing media				
Suitable	e extinguishing media	: Use e	extinguishing media appropriate for su	rrounding fire.	
5.2.	Special hazards arising from the sub	ostance o	or mixture		
Reactiv			activity hazard other than the effects	described in sub-s	ections below.
5.3.	Advice for firefighters				
Firefighting instructions : Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Stop flow of gas if safe to do so, while continuing cooling water spray. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with OSHA 29 CFR 1910.156 and applicable standards under 29 CFR 1910 Subpart L—Fire Protection.					
Protecti	on during firefighting	: Comp	pressed gas: asphyxiant. Suffocation I	nazard by lack of o	xygen.
Special	protective equipment for fire fighters	: Stand fighte	lard protective clothing and equipmen rs.	t (Self Contained E	Breathing Apparatus) for fire
Other in	formation		Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).		
SECT	ION 6: Accidental release meas	ures			
6.1.	Personal precautions, protective equ		and emergency procedures		
6.1.1.	For non-emergency personnel	No ac	ditional information available		
6.1.2.	For emergency responders	No ac	ditional information available		
6.2.	Environmental precautions				
		Dispo	ent waste from contaminating the surrouse of contents/container in accordance act supplier for any special requirement	e with local/region	
6.3.	Methods and material for containme		leaning up Iditional information available		
C 4	Defense to athen a stimu	No ac			
6.4.	Reference to other sections	See a	also sections 8 and 13.		

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SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.	
2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods	
	OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.	
7.3. Specific end use(s)		

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters	
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Methane (74-82-8)	
ACGIH	Not established
USA OSHA	Not established
Argon (7440-37-1)	
ACGIH	Not established
USA OSHA	Not established
3.2. Exposure controls	
Appropriate engineering controls	: Provide adequate general and local exhaust ventilation. Ensure exposure is below occupationa exposure limits (where available).
Eye protection	 Wear safety glasses when handling cylinders; vapor-proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with OSHA 29 CFR 1910.133.
Skin and body protection	 Wear metatarsal shoes and work gloves for cylinder handling, and protective clothing where needed. Wear appropriate chemical gloves during cylinder changeout or wherever contact with product is possible. Select per OSHA 29 CFR 1910.132, 1910.136, and 1910.138.
Respiratory protection	: When workplace conditions warrant respirator use, follow a respiratory protection program that meets OSHA 29 CFR 1910.134, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA). Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres.
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Thermal hazard protection

: Wear cold insulating gloves when transfilling or breaking transfer connections.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and chemical properties				
Physical state	: Gas			
Color	: Colorless			
Odor	: No data available			
Odor threshold	: No data available			
рН	: Not applicable.			
Relative evaporation rate (butyl acetate=1)	: No data available			
Relative evaporation rate (ether=1)	: Not applicable.			
Melting point	: No data available			
Freezing point	: No data available			
Boiling point	: No data available			
Flash point	: No data available			
Auto-ignition temperature	: No data available			
Decomposition temperature	: No data available			
Flammability (solid, gas)	: No data available			
Vapor pressure	: Not applicable.			
Relative vapor density at 20 °C	: No data available			
Relative density	: No data available			
Solubility	: Water: No data available			
Log Pow	: Not applicable.			
Log Kow	: Not applicable.			
Viscosity, kinematic	: Not applicable.			
Viscosity, dynamic	: Not applicable.			
Explosive properties	: Not applicable.			
Oxidizing properties	: None.			
Explosion limits	: No data available			
9.2. Other information				
	No additional information available			

No additional information available

SECT	ION 10: Stability and reactivity	
10.1.	Reactivity	
		No reactivity hazard other than the effects described in sub-sections below.
10.2.	Chemical stability	
		Stable under normal conditions.
10.3.	Possibility of hazardous reactions	
		No additional information available
10.4.	Conditions to avoid	
		No additional information available
10.5.	Incompatible materials	
		No additional information available
10.6.	Hazardous decomposition products	
		No additional information available
SECT	ION 11: Toxicological informatio	on and a second s
11.1.	Information on toxicological effects	

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Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	pH: Not applicable.Not classifiedpH: Not applicable.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

P-5, P-10				
Persistence and degradability	No ecological damage caused by this product.			
Methane (74-82-8)				
Persistence and degradability	The substance is biodegradable. Unlikely to persist.			
Argon (7440-37-1)	· ·			
Persistence and degradability	No ecological damage caused by this product.			
12.3. Bioaccumulative potential				
P-5, P-10				
Log Pow	Not applicable.			
Log Kow	Not applicable.			
Bioaccumulative potential	No ecological damage caused by this product.			
Methane (74-82-8)				
Log Pow	1.09			
Bioaccumulative potential	Not expected to bioaccumulate due to the low log Kow (log Kow < 4). Refer to section 9.			
Argon (7440-37-1)				
Log Pow	Not applicable.			
Log Kow	Not applicable.			
Bioaccumulative potential	No ecological damage caused by this product.			
12.4. Mobility in soil				
P-5, P-10				
Mobility in soil	No data available.			
Methane (74-82-8)				
Ecology - soil	Because of its high volatility, the product is unlikely to cause ground or water pollution.			
Argon (7440-37-1)				
Mobility in soil	No data available.			
Ecology - soil	No ecological damage caused by this product.			
12.5. Other adverse effects				
Effect on ozone layer	: None			

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SECTION 13: Disposal consi	derations
13.1. Waste treatment methods	
Waste treatment methods	: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
Waste disposal recommendations	: Do not attempt to dispose of residual or unused quantities. Return container to supplier.
SECTION 14: Transport info	rmation
In accordance with DOT	
Transport document description	: UN1956 Compressed gas, n.o.s., 2.2
UN-No.(DOT)	: UN1956
Proper Shipping Name (DOT)	: Compressed gas, n.o.s.
Hazard labels (DOT)	: 2.2 - Non-flammable gas
DOT Symbols	 G - Identifies proper shipping name (PSN) requiring the addition of technical name(s) in parentheses following the PSN
Additional information	
Other information	: No supplementary information available.
Special transport precautions	 Avoid transport on vehicles where the load space is not separated from the driver's compartment. 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. Before transporting product containers: Ensure there is adequate ventilation Ensure that containers are firmly secured Ensure cylinder valve is closed and not leaking Ensure valve outlet cap nut or plug (where provided) is correctly fitted Ensure valve protection device (where provided) is correctly fitted.
Transport by sea	
UN-No. (IMDG)	: 1956
Proper Shipping Name (IMDG)	: COMPRESSED GAS, N.O.S.
Class (IMDG)	: 2.2 - Non-flammable, non-toxic gases
Air transport	
Air transport UN-No. (IATA)	: 1956
Proper Shipping Name (IATA)	: COMPRESSED GAS, N.O.S.
Class (IATA)	: 2
SECTION 15: Regulatory info	
15.1. US Federal regulations	
No additional information available	
15.2. International regulations	
CANADA	
Methane (74-82-8)	
Listed on the Canadian DSL (Domes	stic Substances List)

Argon (7440-37-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

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15.2.2. National regulations

No additional information available

5.3. US State regulations			
P-5, P-10()	P-5, P-10()		
U.S California - Proposition 65 - Carcinogens List	No		
U.S California - Proposition 65 - Developmental Toxicity	No		
U.S California - Proposition 65 - Reproductive Toxicity - Female	No		
U.S California - Proposition 65 - Reproductive Toxicity - Male	No		

Methane (74-82-8)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	
Argon (7440-37-1)		• •		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
No	No	No	No	
Methane (74-82-8)				
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List				
Argon (7440-37-1)				
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List				

U.S. - Pennsylvania - RTK (Right to Know) List



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SECTION 16: Other information	
Other information	: When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product
	Praxair asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information
	The opinions expressed herein are those of qualified experts within Praxair, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of safe use of the product
	Praxair SDSs are furnished on sale or delivery by Praxair or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Praxair sales representative, local distributor, or supplier, or download from www.praxair.com. If you have questions regarding Praxair SDSs, would like the document number and date of the latest SDS, or would like the names of the Praxair suppliers in your area, phone or write the Praxair Call Center (Phone: 1-800-PRAXAIR/1-800-772-9247; Address: Praxair Call Center, Praxair, Inc, P.O. Box 44, Tonawanda, NY 14151-0044)
	PRAXAIR and the Flowing Airstream design are trademarks or registered trademarks of Praxair

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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