

Safety Data Sheet P-4637

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	Date of issue: 01/01/1979 Revision date: 10/21/2016 Supersedes: 09/02/2016
SECTION: 1. Product and	company identification
1.1. Product identifier	
Product form	: Substance
Name	: Oxygen, refrigerated liquid
CAS No	: 7782-44-7
Formula	: 02
Other means of identification	: Oxygen (cryogenic liquid), Liquid Oxygen, Medipure Liquid Oxygen
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Use of the substance/mixture	: Industrial use Medical applications
1.3. Details of the supplier of	of the safety data sheet
	Praxair, Inc. 10 Riverview Drive Danbury, CT 06810-6268 - USA T 1-800-772-9247 (1-800-PRAXAIR) - F 1-716-879-2146 www.praxair.com
1.4. Emergency telephone r	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 identif	fication
2.1. Classification of the su	
GHS-US classification	
Ox. Gas 1 H270 Refrigerated liquefied gas H281	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS US)	GHS03 GHS04 : DANGER
Signal word (GHS-US) Hazard statements (GHS-US)	 DANGER H270 - MAY CAUSE OR INTENSIFY FIRE; OXIDIZER H281 - CONTAINS REFRIGERATED GAS; MAY CAUSE CRYOGENIC BURNS OR INJURY CGA-HG13 - COMBUSTIBLES IN CONTACT WITH LIQUID OXYGEN MAY EXPLODE ON

IGNITION OR IMPACT Precautionary statements (GHS-US) : P202 - Do not handle until all safety precautions have been read and understood P220 - Keep/Store away from clothing, combustible materials P244 - Keep reduction valves/valves and fittings free from oil and grease P271+P403 - Use and store only outdoors or in a well-ventilated place P282 - Wear cold insulating gloves/face shield/eye protection. cold insulating gloves, face shield, eye protection P370+P376 - In case of fire: Stop leak if safe to do so CGA-PG05 - Use a back flow preventive device in the piping CGA-PG20+CGA-PG10 - Use only with equipment of compatible materials of construction and rated for cylinder pressure

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		CGA-PG22 - Use only with e CGA-PG24 - DO NOT chang CGA-PG28 - Avoid spills. Do CGA-PG06 - Close valve afte CGA-PG23 - Always keep co	e or force fit connection onot walk on or roll eder er each use and when	ons quipment over spills empty
2.3.	Other hazards			
Other ha	azards not contributing to the : ation	cause nasal stuffiness, cough oxygen at higher pressure ind period. Breathing pure oxyge system (CNS) effects, resultin hearing disturbances, muscu	n, sore throat, chest p creases the likelihood en under pressure ma ng in dizziness, poor o lar twitching, unconso cause prolongation of	ric pressure for more than a few hours may ain, and breathing difficulty. Breathing of adverse effects within a shorter time y cause lung damage and central nervous coordination, tingling sensation, visual and iousness, and convulsions. Breathing adaptation to darkness and reduced
2.4.	Unknown acute toxicity (GHS US)			
		No data available		
SECTI	ON 3: Composition/Information	on ingredients		
3.1.	Substance			
Name		Product identifier	%	1
	, refrigerated liquid	(CAS No) 7782-44-7	100	
(Main cor				
3.2.	Mixture			
Not appl	licable			
SECTI	ON 4: First aid measures			
4.1.	Description of first aid measures			
First-aid	measures after inhalation :		is. Keep victim warm	rictim to uncontaminated area wearing self and rested. Call a doctor. Apply artificial
First-aid	measures after skin contact :	warm water not to exceed 10 skin. Maintain skin warming	5°F (41°C). Water te for at least 15 minute In case of massive e	uid, immediately warm frostbite area with mperature should be tolerable to normal s or until normal coloring and sensation have xposure, remove clothing while showering atment as soon as possible.
First-aid	measures after eye contact :		sure that all surfaces	t least 15 minutes. Hold the eyelids open and are flushed thoroughly. Contact an ical attention.
First-aid	measures after ingestion :	Ingestion is not considered a		
4.2.	Most important symptoms and effects	both acute and delayed		
		No additional information ava	ilable	
4.3.	Indication of any immediate medical at	tention and special treatmen	nt needed	
None.				
SECTI	ON 5: Firefighting measures			
5.1.	Extinguishing media			
		Vigorously accelerates comb	ustion. Use media ar	ppropriate for surrounding fire. Water (e.g,
		safety shower) is the preferre		
		anco or mixturo		
5.2.	Special hazards arising from the subst			
5.2. Fire haza			ccelerates combustio	n. Contact with flammable materials may
	ard :	Oxidizing agent; vigorously a		
Fire haza	ard :	Oxidizing agent; vigorously a cause fire or explosion.		



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5.3. Advice for firefighters	
Firefighting instructions	: DANGER! Extremely cold liquid and gas under pressure. Take care not to direct spray onto vents on top of container. Do not discharge sprays directly into liquid; cryogenic liquid can freeze water rapidly
	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.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Special protective equipment for fire fighters	: Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
Specific methods	: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas containers to rupture. Cool endangered containers with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems
	Exposure to fire may cause containers to rupture/explode
	Stop flow of product if safe to do so
	Use water spray or fog to knock down fire fumes if possible
	If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire.
Other information	: Do not walk on or roll equipment over a spill; any impact could cause an explosion. Smoking, flames, and electric sparks are potential explosion hazards in oxygen-enriched atmospheres
	Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.)
	Cryogenic liquid causes severe frostbite, a burn-like injury. Heat of fire can build pressure in a closed container and cause it to rupture. Venting vapors may obscure visibility. Air will condense on surfaces such as vaporizers or piping exposed to liquid or cold gas. Nitrogen, which has a lower boiling point than oxygen, evaporates first, leaving an oxygen-enriched condensate.
SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
General measures	: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ensure adequate air ventilation. Eliminate ignition sources. Evacuate area. Try to stop release. Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proven to be safe. Stop leak if safe to do so.
6.1.1. For non-emergency personnel	No additional information available
6.1.2. For emergency responders	
	No additional information available
6.2. Environmental precautions	
	Try to stop release.
6.3. Methods and material for containme	ent and cleaning up
	No additional information available
6.4. Reference to other sections	
	See also sections 8 and 13.

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SECT	ION 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaut	ions for safe handling	: Never use oxygen as a substitute for compressed air. Never use an oxygen jet for any type of cleaning, especially for cleaning clothing. Oxygen-saturated clothing may burst into flame at the slightest spark and be quickly consumed in an engulfing fire. Do not get liquid in eyes, on skin, or on clothing. Persons exposed to high concentrations of liquid oxygen should stay in a well-ventilated or open area for 30 minutes before entering a confined space or going near any source of ignition. Immediately remove clothing exposed to oxygen and air it out to reduce the likelihood of an engulfing fire. Prevent ignition sources, such as static electricity generated in clothing while walking
		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.
7.2.	Conditions for safe storage, including	g any incompatibilities
Storage	e conditions	: Store only where temperature will not exceed 125°F (52°C). Post "No Smoking/No Open Flames" signs in storage and use areas. There must be no sources of ignition. Separate packages and protect against potential fire and/or explosion damage following appropriate codes and requirements (e.g, NFPA 30, NFPA 55, NFPA 70, and/or NFPA 221 in the U.S.) or according to requirements determined by the Authority Having Jurisdiction (AHJ). Always secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand when the container is not in use. Store full and empty containers separately. Use a first-in, first-out inventory system to prevent storing full containers for long periods. For other precautions in using this product, see section 16
		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. 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
		When working with cryogenic/cold liquid or gaseous oxygen under pressure, avoid using materials that are incompatible with oxygen use
		When working with cryogenic/cold liquid or gas under pressure, avoid using materials that are incompatible with cryogenic use. Some metals, such as carbon steel, may fracture easily at low temperature. Use only transfer lines designed for cryogenic liquids. Prevent liquid or cold gas from being trapped in piping between valves. Equip the piping with pressure relief devices. Praxair recommends piping all vents to the exterior of the building.
7.3.	Specific end use(s)	

None.

SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
Oxygen, refrigerated liquid (7782-44-7)	
ACGIH	Not established
USA OSHA	Not established

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Respiratory protection

Thermal hazard protection

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Oxygen, refrigerated liquid

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: None required under normal use. An air-supplied respirator must be used while working with this product in confined spaces. The respiratory protection used must conform with OSHA rules as specified in 29 CFR 1910.134. Select per OSHA 29 CFR 1910.134 and ANSI Z88.2. Wear cold insulating gloves. Wear cold insulating gloves when transfilling or breaking transfer

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8.2.	Exposure controls			
Appro	priate engineering controls	checked for lea available). Gas detectors shoul	kages. Ensure exposure is belo detectors should be used wher d be used when asphyxiating g	tems under pressure should be regularly by occupational exposure limits (where n oxidizing gases may be released. Oxygen ases may be released. Provide adequate r work permit system e.g. for maintenance
Hand	protection	: Wear working g	gloves when handling gas conta	iners.
Eye p	rotection	: Wear safety gla breaking transf	0	oggles and a face shield when transfilling or
Skin a	and body protection	clothing where	needed. Cuffless trousers shou	al shoes for container handling, and protective uld be worn outside the shoes. Gloves must be ith OSHA 29 CFR 1910.132, 1910.136, and

Environmental exposure controls	: None necessary.
Other information	: Consider the use of flame resistant safety clothing. Wear safety shoes while handling containers.
SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Colorless gas.
Molecular mass	: 32 g/mol
Color	: Bluish liquid.
Odor	: Odorless.
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	: -219 °C (-362°F)
Freezing point	: -218.4 °C (-361°F)
Boiling point	: -183 °C (-297°F)
Flash point	: No data available
Critical temperature	: -118.6 °C (-181°F)
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: Not applicable.
Critical pressure	: 50.4 bar (731.4 psia)
Relative vapor density at 20 °C	: No data available
Relative density	: 1.1
Density	: 1.4289 kg/m³ (at 21.1 °C)
Relative gas density	: 1.1
Solubility	: Water: 39 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.

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Explosive properties	: Not applicable.
Oxidizing properties	: Oxidizer.
Explosion limits	: No data available
9.2. Other information	
Gas group	: Refrigerated liquefied gas
Additional information	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground level

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	
		Risk of explosion if spilt on organic structural materials (e.g. wood or asphalt). Violently oxidizes organic material.
10.4.	Conditions to avoid	
		None under recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials	
		Consult supplier for specific recommendations. Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (> 30 bar) oxygen lines in case of combustion. Keep equipment free from oil and grease. May react violently with combustible materials. May react violently with reducing agents.
10.6.	Hazardous decomposition products	

	None.	
SECTION 11: Toxicological inform	ation	
11.1. Information on toxicological effect	cts	
Acute toxicity	: Not classified	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	pH: Not applicable. : Not classified pH: Not applicable.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity Specific target organ toxicity (single exposure	: Not classified) : Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
SECTION 12: Ecological information	on	
12.1. Toxicity		
Ecology - general	: No ecological damage caused by this product.	
12.2. Persistence and degradability		
Oxygen, refrigerated liquid (7782-44-7)		
Persistence and degradability	No ecological damage caused by this product.	
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12.3. Bioaccumulative potential	
Oxygen, refrigerated liquid (7782-44-7) Log Pow	Not applicable.
Log Kow	Not applicable.
Bioaccumulative potential	No ecological damage caused by this product.
12.4. Mobility in soil	
Oxygen, refrigerated liquid (7782-44-7)	
Mobility in soil	No data available.
Ecology - soil	No ecological damage caused by this product.
12.5. Other adverse effects	
Other adverse effects	: Can cause frost damage to vegetation.
Effect on ozone layer	: None
Effect on the global warming	: No known effects from this product
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Waste treatment methods	: Do not discharge into any place where its accumulation could be dangerous.
Waste disposal recommendations	 Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.
SECTION 14: Transport information	n
n accordance with DOT	
Transport document description	: UN1073 Oxygen, refrigerated liquid (cryogenic liquid), 2.2
JN-No.(DOT)	: UN1073
Proper Shipping Name (DOT)	: Oxygen, refrigerated liquid
	(cryogenic liquid)
Class (DOT)	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT)	: 2.2 - Non-flammable gas 5.1 - Oxidizer
DOT Special Provisions (49 CFR 172.102)	 T75 - When portable tank instruction T75 is referenced in Column (7) of the 172.101 Table, the applicable refrigerated liquefied gases are authorized to be transported in portable tanks in accordance with the requirements of 178.277 of this subchapter TP5 - For a portable tank used for the transport of flammable refrigerated liquefied gases or refrigerated liquefied oxygen, the maximum rate at which the portable tank may be filled must not exceed the liquid flow capacity of the primary pressure relief system rated at a pressure not exceeding 120 percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied helium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of percent of the portable tank's design pressure. For portable tanks used for the transport of refrigerated liquefied helium and refrigerated liquefied atmospheric gas (except oxygen), the maximum rate at which the tank is filled must not exceed the liquid flow capacity of the pressure relief device rated at 130 percent of the portable tank's design pressure. Except for a portable tank containing refrigerated liquefied helium, a portable tank shall have an outage of at least two percent below the inlet of the pressure relief device or pressure control valve, under conditions of incipient opening, with the portable tank in a level attitude. No outage is required for helium TP22 - Lubricants for portable tank fittings (for example, gaskets, shut-off valves, flanges) must be oxygen compatible
Additional information	· 122 (11N1072)
Emergency Response Guide (ERG) Number	: 122 (UN1072)
Other information	: No supplementary information available.
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: Gases under pressure/Gases nonflammable nontoxic under pressure

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.
Transport by sea	
UN-No. (IMDG)	: 1073
Proper Shipping Name (IMDG)	: OXYGEN, REFRIGERATED LIQUID
Class (IMDG)	: 2 - Gases
MFAG-No	: 122
Air transport	
UN-No. (IATA)	: 1073
Proper Shipping Name (IATA)	: Oxygen, refrigerated liquid
Class (IATA)	: 2

SECTION 15: Regulatory information			
15.1. US Federal regulations			
Oxygen, refrigerated liquid (7782-44-7)			
Listed on the United States TSCA (Toxic Substanc	es Control Act) inventory		
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Sudden release of pressure hazard		
	All components of this product are listed on the Toxic Substances Control Act (TSCA) inventory.		

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations CANADA
Oxygen, refrigerated liquid (7782-44-7)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Civil Aeronautics Law

Oxygen, refrigerated liquid (7782-44-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

15.2.2. National regulations

 Oxygen, refrigerated liquid (7782-44-7)

 Listed on the AICS (Australian Inventory of Chemical Substances)

 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

 Listed on the Korean ECL (Existing Chemicals List)

 Listed on NZIOC (New Zealand Inventory of Chemicals)

 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

 Listed on INSQ (Mexican National Inventory of Chemical Substances)



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15.3. US State regulations Oxygen, refrigerated liquid(7782-44-7) U.S. - California - Proposition 65 - Carcinogens List No U.S. - California - Proposition 65 - Developmental No Toxicity U.S. - California - Proposition 65 - Reproductive No Toxicity - Female U.S. - California - Proposition 65 - Reproductive No Toxicity - Male State or local regulations 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

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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 hygenist 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 contained herein is current as of the date of this Safety Data Sheet. Since the use of this information contained herein is current as of the date 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 or 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)		
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 and 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 and the conditions of use are not within the control of 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 use are not within the control of Praxair, Inc, it is the user's obligation to determine the conditions of sub each 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. Iocal 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-PT2-9247; Address: Praxair Call Center, Praxair, Inc, P.O. Box 44, Tonawanda, NY 14151-0044)NFPA health hazard: 3 - Short exposure could cause serious temporary or residual injury even though prom	SECTION 16: Other information	
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 informationThe 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 productPraxair 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 Praxia realse 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-PRAXAIR1+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 Technology, Inc. in the United States and/or other countries.NFPA fire hazard: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.NFPA fire hazard: 0 - Naterials that will not burn.NFPA specific hazard: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. <td>Other information</td> <td>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.</td>	Other information	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.
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 productPraxair 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, 		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
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This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1979 Revision date: 10/21/2016 Supersedes: 09/02/2016

HMIS III Rating

Health

Physical

Flammability

: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

- : 0 Minimal Hazard
- : 2 Moderate Hazard

SDS US (GHS HazCom 2012) - Praxair

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.