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Nitrogen, compressed

Safety Data Sheet P-4631

Making our planet more productive*

This SDS conforms to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication. Date of issue: 01/01/1980 Revision date: 07/13/2018 Supersedes: 10/21/2016

SECTION: 1. Product and company id	lentification
1.1. Product identifier	
Product form	: Substance
Trade name	: Nitrogen, Medipure Nitrogen, Extendapak Nitrogen
Chemical name	: Nitrogen
CAS-No.	: 7727-37-9
Formula	: N2
Other means of identification	: Dinitrogen, Refrigerant R728, Nitrogen, Medipure Nitrogen, Extendapak Nitrogen, Nitrogen - Diving Grade
1.2. Relevant identified uses of the subst	ance or mixture and uses advised against
Use of the substance/mixture	: Industrial use Medical applications. Food applications. Diving Gas (Underwater Breathing)
1.3. Details of the supplier of the safety d	ata sheet
	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 mi	xture
GHS-US classification	
Press. Gas (Comp.) H280	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
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)	 P202 - Do not handle until all safety precautions have been read and understood. P271+P403 - Use and store only outdoors or in a well-ventilated place. CGA-PG05 - Use a back flow preventive device in the piping. CGA-PG10 - Use only with equipment rated for cylinder pressure. CGA-PG06 - Close valve after each use and when empty. CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F).

EN (English US)

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SECTION 6: Accidental release meas	sures
6.1. Personal precautions, protective equip	
General measures	: Evacuate area. Ensure adequate air ventilation. 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	
	No additional information available
6.3. Methods and material for containme	nt and cleaning up No additional information available
6.4. Reference to other sections	
	See also sections 8 and 13.
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.
Safe use of the product	: The suitability of this product as a component in underwater breathing gas mixtures is to be determined by or under the supervision of personnel experienced in the use of underwater breathing gas mixtures and familiar with the physiological effects, methods employed, frequency and duration of use, hazards, side effects, and precautions to be taken.
7.2. Conditions for safe storage, includi	
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/pers	onal protection
8.1. Control parameters	
Nitrogen, compressed (7727-37-9)	
ACGIH Not established	d
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Oxidizing properties : Explosion limits : 9.2. Other information : Gas group : Additional information : SECTION 10: Stability and reactivity : 10.1. Reactivity : 10.2. Chemical stability : 10.3. Possibility of hazardous reactions : 10.4. Conditions to avoid : 10.5. Incompatible materials : 10.6. Hazardous decomposition products : Section 11.1. Information on toxicological effects : Acute toxicity : Skin corrosion/irritation : Serious eye damage/irritation :	 Not applicable. None. No data available Compressed gas None. Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium 1472°F/800°C), and magnesium to form nitrides. At high temperature, it can also com oxygen and hydrogen. Stable under normal conditions. May occur. None under recommended storage and handling conditions (see section 7). None. None. None. None. None. 	nbine with
Explosion limits : 9.2. Other information Gas group : Additional information : SECILION 10: Stability and reactivity 10.1. Reactivity 10.2. Chemical stability 10.3. Possibility of hazardous reactions 10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products SECILION 11/R Troxicological information 11.1. Information on toxicological effects Acute toxicity : Skin corrosion/irritation : Ferious eye damage/irritation :	 No data available Compressed gas None. Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium 1472°F/800°C), and magnesium to form nitrides. At high temperature, it can also com oxygen and hydrogen. Stable under normal conditions. May occur. None under recommended storage and handling conditions (see section 7). None. None. 	nbine with
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10.4. Conditions to avoid 10.5. Incompatible materials 10.6. Hazardous decomposition products Secondary Structure Skin corrosion/irritation Serious eye damage/irritation	May occur. None under recommended storage and handling conditions (see section 7). None. None.	
10.5. Incompatible materials 10.6. Hazardous decomposition products SECTION 11: Troxicological information 11.1. Information on toxicological effects Acute toxicity : Skin corrosion/irritation : Serious eye damage/irritation :	None. None. m	
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SECTION 112 Toxicological information 11.1. Information on toxicological effects Acute toxicity : Skin corrosion/irritation : N Serious eye damage/irritation : N	on :	
11.1. Information on toxicological effects Acute toxicity : Skin corrosion/irritation : Serious eye damage/irritation : F : Serious eye damage/irritation :		
11.1. Information on toxicological effects Acute toxicity : ikin corrosion/irritation : rerious eye damage/irritation : r .		
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Skin corrosion/irritation : N Serious eye damage/irritation : N	: Not classified	
Ferious eye damage/irritation : N		
erious eye damage/irritation : N	Not classified	
F	pH: Not applicable.	
	Not classified	
	pH: Not applicable.	
	Not classified Not classified	
	Not classified	
	: Not classified	
	: Not classified	
	: Not classified	
•	: Not classified	
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SECTION 12: Ecological information		
12.1. Toxicity	. No coolegical demore council by this product	
Ecology - general :	: No ecological damage caused by this product.	
12.2. Persistence and degradability		
Nitrogen, compressed (7727-37-9) Persistence and degradability	No ecological damage caused by this product.	
Nitrogen (7727-37-9)		
Persistence and degradability	No ecological damage caused by this product.	



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Class (IMDG)	: 2 - Gases
· ·	
Division (IMDG)	: 2.2 - Non-flammable, non-toxic gases
MFAG-No	: 121
Air transport	
UN-No. (IATA)	: 1066
Proper Shipping Name (IATA)	: NITROGEN, COMPRESSED
Class (IATA)	: 2.2 - Gases : Non-flammable, non-toxic
Civil Aeronautics Law	: Gases under pressure/Gases nonflammable nontoxic under pressure

CHENCING INCOMPENDING INCOMPENDING	
15.1. US Federal regulations	
Nitrogen, compressed (7727-37-9)	
Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
SARA Section 311/312 Hazard Classes	Sudden release of pressure hazard

15.2. International regulations

CANADA

Nitrogen, compressed (7727-37-9)	
Listed on the Canadian DSL (Domestic Substances Lis	t) ::
Nitrogen (7727-37-9)	
Listed on the Canadian DSL (Domestic Substances Lis	t)

EU-Regulations

ļ	Nitrogen, compressed (7727-37-9)	1.101.1
	Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)	1

15.2.2. National regulations

Nitrogen, compressed (7727-37-9) 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)

15.3. US State regulations	
Nitrogen, compressed(7727-37-9)	
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
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

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