

Safety Data Sheet E-4631 according to the Hazardous Products Regulation (February 11, 2015)

according to the Hazardous Products Regulation (February 11, 2015)Date of issue: 10-15-1979Revision date: 01-05-2022Supersedes: 01-01-2021

SECTION 1: Identification	
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
Product group	: Core Products
1.2. Recommended use and restrictions of	on use
Recommended uses and restrictions	: Medical applications. Industrial use Diving Gas (Underwater Breathing)
1.3. Supplier	
Linde Canada inc. 1200 – 1 City Centre Drive Mississauga - Canada L5B 1M2 T 1-905-803-1600 - F 1-905-803-1682 www.lindecanada.ca	
1.4. Emergency telephone number	
Emergency number	 1-800-363-0042 Call emergency number 24 hours a day only for spills, leaks, fire, exposure, or accidents involving this product. For routine information, contact your supplier or Linde sales representative.
SECTION 2: Hazard identification	
2.1. Classification of the substance or mix	xture
GHS-CA classification	
Compressed gas H280 Simple asphyxiant H380	
2.2. GHS Label elements, including preca	utionary statements
GHS-CA labelling	
Hazard pictograms	
Signal word	GHS04 : WARNING
Hazard statements	: CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION
Precautionary statements	 Do not handle until all safety precautions have been read and understood Use and store only outdoors or in a well-ventilated area. Protect from sunlight when ambient temperature exceeds 52°C (125°F). Use a back flow preventive device in the piping. Close valve after each use and when empty. Use only with equipment rated for cylinder pressure.



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	Obtain special	instructions before	9 USE
2.3. Other hazards			
Other hazards which do not result in classification	: Asphyxiant in breathing.	high concentrations	s. May cause suffocation by reducing oxygen available for
2.4. Unknown acute toxicity (GHS (CA)		
No data available			
SECTION 3: Composition/inform	nation on ingredie	nts	
3.1. Substances			
Name	CAS No.	% (Vol.)	Common Name (synonyms)
Nitrogen (Main constituent)	(CAS No) 7727-37-9	100	Nitrogen (liquified) / Nitrogen gas / Nitrogen, liquefied / NITROGEN / Nitrogen, compressed
3.2. Mixtures			
Not applicable			
SECTION 4: First-aid measures			
4.1. Description of first aid measure	es		
First-aid measures after inhalation	: Immediately re		If not breathing, clear airways of any slurry or caked material reathing is difficult, qualified personnel may give oxygen. Call
First-aid measures after skin contact	: Adverse effect	ts not expected from	n this product.
First-aid measures after eye contact			n this product. In case of eye irritation: Rinse immediately with ly with plenty of water. Consult an ophthalmologist if irritation
First-aid measures after ingestion	: Ingestion is no	ot considered a pote	ential route of exposure.
4.2. Most important symptoms and	effects (acute and del	ayed)	
No additional information available			
4.3. Immediate medical attention a	nd special treatment, in	f necessary	
Other medical advice or treatment	: None.		
SECTION 5: Fire-fighting measu	res		
5.1. Suitable extinguishing media			
Suitable extinguishing media	: Use extinguish	ning media appropr	iate for surrounding fire.
5.2. Unsuitable extinguishing medi	a		
No additional information available			
5.3. Specific hazards arising from t	he hazardous product		
Explosion hazard			IAY BURST IF HEATED.
Reactivity	: Under certain	conditions, nitroger), or magnesium to	n can react violently with lithium, neodymium, titanium (above form nitrides. At high temperature, it can also combine with

 5.4.
 Special protective equipment and precautions for fire-fighters

 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 their provincial and local fire code regulations.

 Protection during firefighting
 : Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen.

 Special protective equipment for fire fighters
 : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire

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fighters.



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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.
	Stop flow of product if safe to do so.
	Use water spray or fog to knock down fire fumes if possible.
SECTION 6: Accidental releas	se measures
6.1. Personal precautions, prote	ective equipment and emergency procedures
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.
6.2. Methods and materials for o	containment and cleaning up
6.3. Reference to other sections	3
For further information refer to section	on 8: Exposure controls/personal protection
SECTION 7: Handling and sto	rage
7.1. Precautions for safe handli	ng
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	, 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.
SECTION 8: Exposure contro	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.

8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	: Use a local exhaust system with sufficient flow velocity to maintain an adequate supply of air in the worker's breathing zone. Mechanical (general): General exhaust ventilation may be acceptable if it can maintain an adequate supply of air.



Safety Data Sheet E-4631

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8.3. Individual protection measures/Per	sonal protective equipment
Personal protective equipment	: In case of splash hazard: safety glasses. Face shield. Gloves.
Hand protection	: Wear work gloves when handling containers. Wear heavy rubber gloves where contact with product may occur.
Eye protection	: Wear goggles when transfilling or breaking transfer connections. Select in accordance with the current CSA standard Z94.3, "Industrial Eye and Face Protection", and any provincial regulations, local bylaws or guidelines.
Skin and body protection	As needed for welding, wear hand, head, and body protection to help prevent injury from radiation and sparks. (See ANSI Z49.1.) At a minimum, this includes welder's gloves and protective goggles, and may include arm protectors, aprons, hats, and shoulder protection as well as substantial clothing.
Respiratory protection	: Respiratory protection: Use air supplied respirator when working in confined space or where local exhaust or ventilation does not keep exposure below TLV. Select in accordance with provincial regulations, local bylaws or guidelines. Respirators should also be approved by NIOSH and MSHA. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere.
Other information	: Other protection : Safety shoes for general handling at customer sites. Metatarsal shoes and cuffless trousers for cylinder handling at packaging and filling plants. Select in accordance with the current CSA standard Z195, "Protective Foot Wear", and any provincial regulations, local bylaws or guidelines. For working with flammable and oxidizing materials, consider the use of flame resistant anti-static safety clothing.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties : Gas Physical state Appearance : Colourless gas. Molecular mass : 28 g/mol Colour : Colourless. Odour : No odour warning properties. Odour threshold : No data available pН : Not applicable. : No data available pH solution Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) : Not applicable. : -210 °C Melting point Freezing point : No data available : -195.8 °C Boiling point Flash point : No data available : -149.9 °C Critical temperature Auto-ignition temperature : Not applicable. Decomposition temperature : No data available Vapour pressure : Not applicable. Vapour pressure at 50 °C : No data available Critical pressure : 3390 kPa Relative vapour density at 20 °C : 0.00115 (≥ 21.1) Relative density : No data available

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Relative gas density

Density

Relative density of saturated gas/air mixture

No data available
1.16 kg/m³

: 0.97



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Solubility	: Water: 20 mg/l
Log Pow	: Not applicable.
Log Kow	: Not applicable.
Viscosity, kinematic	: Not applicable.
Viscosity, dynamic	: Not applicable.
Viscosity, kinematic (calculated value) (40 °C)	: Not applicable.
Explosive properties	: Not applicable.
Oxidizing properties	: None.
Flammability (solid, gas)	:
	Non flammable
9.2. Other information	
Gas group	: Compressed gas
Additional information	: None.
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Reactivity	: Under certain conditions, nitrogen can react violently with lithium, neodymium, titanium (above 1472°F/800°C), or magnesium to form nitrides. At high temperature, it can also combine with oxygen and hydrogen.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: May occur.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: None.
Hazardous decomposition products	: None.
SECTION 11: Toxicological informat	ion

Likely routes of exposure	: Inhalation.
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Sorious ave demoge/irritation	pH: Not applicable. : Not classified
Serious eye damage/irritation	pH: 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
Nitrogen (7727-37-9)	
Viscosity, kinematic (calculated value) (40 °C)	Not applicable.



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SECTION 12: Ecological information 12.1. Toxicity 12.1. Toxicity 12.2. Persistence and degradability Nirogen (727-37-9) Persistence and degradability No ecological damage caused by this product. 12.3. Bloaccumulative potential Nirogen (727-37-9) Log Pow Not applicable. Log Kow Not applicable. Bioaccumulative potential No ecological damage caused by this product. 12.4. Mobility in soil Not applicable. Mirrogen (7727-37-9) Not applicable. Log Kow Not applicable. Ecology - soil No ecological damage caused by this product. 12.5. Other adverse effects Effect on global warming Effect on global warming : None. SECTION 13: Disposal considerations : Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements. SECTION 14: Transport information 14.1 14.1 Basic shipping descript
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Carrying Railway Vehicle Index 14.3. Air and sea transport IMDG
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IMDG
UN-No. (IMDG) : 1066
Proper Shipping Name (IMDG) : NITROGEN, COMPRESSED
Class (IMDG) : 2 - Gases
MFAG-No : 121
IATA
UN-No. (IATA) : 1066
Proper Shipping Name (IATA) : Nitrogen, compressed
Class (IATA) : 2 - Gases



Safety Data Sheet E-4631 according to the Hazardous Products Regulation (February 11, 2015) Date of issue: 10-15-1979 Revision date: 01-05-2022 Supersedes: 01-01-2021

15.1. National regulations

Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations		
Nitrogen (7727-37-9)		
Nitrogen (7727-37-3) 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 EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) 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 the United States TSCA (Toxic Substances Control Act) inventory Listed on INSQ (Mexican National Inventory of Chemical Substances)		
SECTION 16: Other information		
Date of issue	: 15/10/1979	
Revision date	: 05/01/2022	
Supersedes	: 01/01/2021	
Indication of changes: Training advice	: The hazard of asphyxiation is often overlooked and must be stressed during operator training.	
Other information	: Linde 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 Linde Canada 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 Linde Canada Inc, it is the user's obligation to determine the conditions of safe use of the product. Linde Canada Inc, SDSs are furnished on sale or delivery by Linde Canada Inc, or the independent distributors and suppliers who package and sell our products. To obtain current SDSs for these products, contact your Linde sales representative, local distributor, or supplier, or download from www.lindecanada.ca. If you have questions regarding Linde SDSs, would like the document number and date of the latest SDS, or would like the names of the Linde suppliers in your area, phone or write Linde Canada Inc, (Phone: 1-888-257-5149; Address: Linde Canada Inc, 1 City Centre Drive, Suite 1200, Mississauga, Ontario, L5B 1M2).	
NFPA health hazard	: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA instability	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
NFPA specific hazard	: SA - This denotes gases which are simple asphyxiants.	
HMIS III Rating		
Health	: 0 Minimal Hazard - No significant risk to health	
Flammability	: 0 Minimal Hazard - Materials that will not burn	
Physical	: 3 Serious Hazard - Materials that may form explosive mixtures with water and are capable of detonation or explosive reaction in the presence of a strong initiating source. Materials may polymerize, decompose, self-react, or undergo other chemical change at normal temperature and pressure with moderate risk of explosion	

SDS Canada (GHS) - Linde



Nitrogen Safety Data Sheet E-4631 according to the Hazardous Products Regulation (February 11, 2015)

Date of issue: 10-15-1979 Revision date: 01-05-2022 Supersedes: 01-01-2021

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.