

Printing date 12/11/2008	Version 10	Reviewed on 12/11/2008
* 1 Identification of substance		
· Product details		
· Trade name: Nitrogen		
• Article number: 003-01-0001		
· Creation date: 11/27/2008		
 Manufacturer/Supplier: Linde Canada Limited 5860 Chedworth Way Mississauga, Ontario L5R 0A2 Telephone (905) 501-1700 24-HOUR EMERGENCY TELEI (905) 501-0802 Information department: Custor 		NJ 07974 .
* 2 Composition/Data on comp	ponents	
• Chemical characterization:		
CAS No. Description 7727-37-9 Nitrogen Gaseous		
· Identification number(s)		
• EINECS Number: 231-783-9 • Chemical characterization		
• Dangerous components:		
Chemical components		
7727-37-9 Nitrogen Gaseous		23-100%
3 Hazards identification		
· Hazard description:		
• WHMIS-symbols: A - Compressed gas		
• HMIS-ratings (scale 0 - 4)		
HEALTH 0 Health = 0FIRE 0 Fire = 0REACTIVITY 0 Reactivity = 0		
• NFPA ratings (scale 0 - 4)		
Health $= 0$		
$\begin{array}{c} 0 0 0 \mathbf{Fire} = 0 \\ \mathbf{Reactivity} = 0 \end{array}$		
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		CDN -



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• Information pertaining to particular dangers for man and environment: Not applicable. • Classification system:

The classification is in line with internationally approved calculation standards. It is expanded, however, by information from technical literature and by information furnished by supplier companies. • **GHS label elements**

Warning

2.5/C - Contains gas under pressure; may explode if heated. • Storage:

Protect from sunlight. Store in a well-ventilated place.

4 First aid measures

 \cdot After inhalation: Supply fresh air; consult doctor in case of complaints.

- \cdot After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for at least 15 minutes under running water. Then consult a doctor.
- · After swallowing: Not applicable

5 Fire fighting measures

• Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

· Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventillation.

Stop leak - ONLY if possible to do so without risk.

- \cdot Measures for environmental protection: Prevent seepage into sewage system, workpits and/or cellars.
- Measures for cleaning/collecting: Ensure adequate ventillation.
- Additional information: No dangerous substances are released.

7 Handling and storage

- · Handling:
- · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Handle with care. Avoid jolting, friction, and impact.

Use only in well ventilated areas.

Store container in a secured area. Limit access to authorized personnel only. Report any incidents involving thefts, misuse, or inventory shortages to law enforcement and the supplier. Security shall be provided in accordance with all local, state (provincial) and federal regulations.

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Material Safety Data Sheet Printing date 12/11/2008 Version 10 Reviewed on 12/11/2008 **Trade name: Nitrogen** (Contd. of page 2) · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. · Storage: · Requirements to be met by storerooms and receptacles: Do not expose cylinder to temperatures higher than 50°C (122 °F) · Information about storage in one common storage facility: Sources of ignition should be removed from storage area. · Further information about storage conditions: Store cylinder in a well ventilated area. Store in accordance with local fire code and/or building code or any pertaining regulations. 8 Exposure controls and personal protection · Additional information about design of technical systems: Adequate local ventillation. Safety showers and eyewash stations should be nearby. · Components with limit values that require monitoring at the workplace: 7727-37-9 Nitrogen Gaseous (23 - 100%) EL Simple asphyxiant · Additional information: The lists that were valid during the creation were used as basis. · Personal protective equipment: · General protective and hygienic measures: Protective clothing should be kept free of oil and grease. PPE should be inspected and maintained regularly to retain it's effectiveness. · Breathing equipment: Use atmosphere-supplying respirators (e.g. supplied-air: demand, pressure-demand, or continuous-flow or selfcontained breathing apparatus: demand or pressure-demand or combination supplied-air with auxiliary selfcontained air supply atmosphere-supplying respirator) in case of insufficient ventilation. · Protection of hands: Protective gloves. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. • Eye protection: Safety glasses **9** Physical and chemical properties · General Information Form: Gaseous.

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Material Safety Data Sheet

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Color: Odor:	Colorless Odorless	
 Change in condition Melting point/Melting range Boiling point/Boiling range: 		
· Flash point:	Not applicable.	
· Danger of explosion:	Product does not present an explosion hazard.	

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known.

· Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- · Acute toxicity:
- \cdot LD/LC50 values that are relevant for classification: LC50 > 5000 ppm
- · Primary irritant effect:
- \cdot on the skin: No irritating effect.
- \cdot on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

12 Ecological information

· General notes: Generally not hazardous for water.

13 Disposal considerations

- · Product:
- **Recommendation:** Unused product should be returned to vendor.
- · Uncleaned packagings:
- · Recommendation:
- Cylinder and unused product should be returned to vendor. Disposable
- cylinder must be disposed of in accordance with local regulations.
- · Recommended cleansing agent: None applicable.

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• TDG and DOT regulations:	
2	
 Hazard class: Identification number: 	2 UN1066
 Proper shipping name (technical name): Label 	2.2
· Laber · Packaging group:	2.2
	-
 Maritime transport IMDG: 	
· IMDG Class:	2
· UN Number:	1066
· Label	2.2
	NO NITROCEN COMPRESSED
· Proper shipping name:	NITROGEN, COMPRESSED
· Air transport ICAO-TI and IATA-DGR	:
~	
· ICAO/IATA Class:	2
· ICAO/IATA Class: · UN/ID Number:	2 1066

15 Regulations

*

·Sara	
· Section 355 (extremely hazardous substances):	
Substance is not listed.	
· Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
· TSCA (Toxic Substances Control Act):	
Substance is listed.	
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Printing date 12/11/2008 Version 10 Reviewed on 12/11/2008 **Trade name: Nitrogen** (Contd. of page 5) · Proposition 65 · Chemicals known to cause cancer: Substance is not listed. · Chemicals known to cause reproductive toxicity for females: Substance is not listed. · Chemicals known to cause reproductive toxicity for males: Substance is not listed. · Chemicals known to cause developmental toxicity: Substance is not listed. · Cancerogenity categories · EPA (Environmental Protection Agency) Substance is not listed. · NTP (National Toxicology Program) Substance is not listed. · TLV (Threshold Limit Value established by ACGIH) Substance is not listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed. · Canadian substance listings: · Canadian Domestic Substances List (DSL) Substance is not listed. · Canadian Ingredient Disclosure list (limit 0.1%) Substance is not listed. · Canadian Ingredient Disclosure list (limit 1%) Substance is not listed. · Product related hazard informations:

Observe the general safety regulations when handling chemicals.

The substance is not subject to classification according to the sources of literature known to us. The product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

· Safety phrases:

Keep container in a well-ventilated place.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Please refer to the section 3 for NFPA and HMIS Hazard Codes.



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(Contd. of page 6) DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). GENERAL DISCLAIMER For terms and conditions, including limitation of liability, please refer to the purchase agreement in effect between Linde Inc. (or any of its affiliates and subsidiaries) and the purchaser. · Department issuing MSDS: Customer Service Centre: 1-866-385-5349 · Abbreviations and Acronyms: ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstract Service (Division of the American Chemical Society) DOT: US Department of Transportation EINECS: European Inventory of Existing Commercial Chemical Substances GHS: Globally Harmonized System of Classification and Labelling of Chemicals HMIS: Hazardous Material Identification System IATA: International Air Transportation Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transportation Association" ICAO: International Civil Aviation Association ICAO-TI: Technical Instructions by the "International Civil Aviation Organization (ICAO) IMDG: International Marine Code for Dangerous Goods WHIMS: Workplace Hazardous Material Information System LC50: Lethal Concentration, 50 Percent LD50: Lethal Dose, 50 Percent N/A: Not Applicable