



Date Prepared: July 1, 1992

Date Reviewed: March 21, 2006

MATERIAL SAFETY DATA SHEET

Product Name: Nitrogen, compressed

March 21, 2006

1. Chemical Product and Company Identification

Linweld, Inc
9911 Deer Park Road
Waverly, NE 68462

Telephone Number
Information: (402) 786-3330
Emergency: (402) 786-5277

Product Name: Nitrogen, compressed
Chemical Name: Nitrogen
Common Names: Nitrogen; Nitrogen, compressed

2. Hazard Ingredients and Identity Information

COMPONENT	% VOLUME	OSHA-PEL	ACGIH-TLV	CAS NUMBER
Nitrogen	> 99.5	N/A	N/A	007727-37-9

3. Physical and Chemical Characteristics

Boiling Point:	-320.4° F	Vapor Density:	0.97	pH:	N/A
Melting Point:	-345.9° F	Evaporation Rate:	N/A	Physical State:	Gas
Vapor Pressure:	N/A	Solubility (H2O):	Slightly		

Appearance and Odor:
Colorless, odorless gas.

How to Detect This Substance:
N/A

Other Physical and Chemical Data:
Liquid density at boiling point, 50.46 lb/ft³ (808.3) kg/m³
Gas density at 70° F 1 atm, 0.0725 lb/ft³ (1.161 kg/m³)

4. Fire and Explosion Hazard Data

Flammability Classification:	Nonflammable	Flash Point (F):	N/A	LEL (%):	N/A
Ignition Temperature:	N/A	Method:	N/A	UEL (%):	N/A

Extinguishing Media:
N/A

Fire Fighting Procedures:
If cylinders are involved in a fire, safely relocate or keep cool with water spray.

Fire & Explosion Hazard:
N/A

5. Reactivity Data

Stability:	Stable	Hazardous Polymerization:	Will not occur
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Incompatibility:
None

Conditions to Avoid:
N/A

Hazardous Decomposition or Byproducts:
None

Other Reactivity Data:
N/A

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6. Health Hazard Data

Route(s) of Entry:

Eye Contact
Yes

Skin Contact
Yes

Skin Absorption
No

Inhalation
Yes

Ingestion
No

Health Hazards:

Chronic N/A

Carcinogenicity:

NTP
No

IARC Monographs
No

OSHA
No

Signs and Symptoms of Exposure and Emergency First Aid Procedures:

Eye Contact N/A

Skin Contact N/A

Inhalation

Product is a simple asphyxiant. Effects of oxygen deficiency may include any, all or none of the following: rapid breathing, diminished mental alertness, impaired muscle coordination, blurred speech, and fatigue. As asphyxiation progresses; nausea, vomiting, and loss of consciousness may occur, eventually leading to convulsions, coma and death.

Conscious victim should be assisted to an uncontaminated area and allowed to inhale fresh air. Unconscious victim should be moved to an uncontaminated area and given assisted respiration.

Ingestion N/A

Medical Conditions Aggravated by Exposure:

Persons of ill health that may be aggravated by exposure to nitrogen should not be allowed to work with this product.

7. Precautions for Safe Handling and Use

Actions if Released or Spilled:

Evacuate all personnel from affected area. Use appropriate personal protective equipment.

Waste Disposal Method:

Do not attempt to dispose of waste or unused quantities. Return in properly labeled shipping container, with any valve outlet plugs or caps secured and valve protection cap in place.

Handling and Storage Precautions:

Use only in well-ventilated areas. Valve protection caps must remain in place unless cylinder is secured with valve outlet piped to point of use. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure-reducing regulator when connecting cylinder to lower pressure piping or systems. Do not heat cylinder. Use a check valve or trap in the discharge line to prevent hazardous backflow into the cylinder.

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavy traffic areas and emergency exits. Do not allow temperature of cylinder storage area to exceed 125° F. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated.

Other Precautions:

Nitrogen is noncorrosive and may be used with common structural materials.

Compressed gas cylinders should only be refilled by qualified personnel. Shipment of compressed gas cylinders that have been filled without the consent of the cylinder owner is a violation of federal law (49 CFR).

Always secure cylinders in an upright position during transportation. Never transport cylinders in enclosed space such as a vehicle truck or van.

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7. Precautions for Safe Handling and Use (Continued)

Transportation Information:

Shipping Name	Nitrogen, compressed
Hazard Class	2.2
ID Number	UN1066
Shipping Label - 1	Nonflammable Gas

NFPA Rating:

Health: 0 **Flammability:** 0 **Reactivity:** 0

8. Control Measures

Eye Protection:

Safety glasses or goggles as appropriate.

Protective Gloves:

N/A

Respiratory Protection:

Positive pressure airline with full mask or self-contained breathing apparatus should be available for emergency use.

Ventilation:

Local exhaust to prevent nitrogen accumulation sufficient to reduce oxygen concentration below 19.5%

Other Protective Clothing or Equipment:

Safety shoes as appropriate.

9. Regulatory Information

SARA TITLE III NOTIFICATIONS AND INFORMATION

SARA Title III – Section 313 Supplier Notification:

This product does not contain toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and 40 CFR 372.

SARA Title III – Hazard Classes:

Sudden Release of Pressure Hazard

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