

Nitrogen, Compressed

SDS Number: 1066

Revision Date: 5/19/2015

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Norco, Inc.
1125 W. Amity Rd.
Boise, ID 83705

Contact: Quality Dept.
Phone: 208-336-1643
Fax: 208-433-6160
Web: www.Norco-Inc. com

Product Name: Nitrogen, Compressed
Revision Date: 5/19/2015
Version: 2
SDS Number: 1066
Common Name: Nitrogen
CAS Number: 7727-37-9
EPA Number: Not Available
RCRA Number: Not Applicable
Chemical Family: Inert Gas
Chemical Formula: N₂
Synonyms: Nitrogen gas, Nitrogen, Nitrogen Food Grade
Product Use: Calibration of analytical instrumentation, inerting atmospheres, blanketing, Food processing

For Transportation Emergency Contact CHEMTREC: 800-424-9300

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HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Physical, Gases Under Pressure, Compressed Gas

GHS Label elements, including precautionary statementsGHS Signal Word: **WARNING**

GHS Hazard Pictograms:

**GHS Hazard Statements:**

H280 - Contains gas under pressure; may explode if heated
OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION.

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
P271 - Use and store only outdoors or in a well-ventilated area.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P313 - Get medical advice/attention.
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).

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Hazards not otherwise classified (HNOC) or not covered by GHS

Route of Entry: Inhalation;

Target Organs: Respiratory system;

Inhalation: Product is a simple asphyxiant. This product may displace oxygen if released in a confined space. Maintain oxygen levels above 19.5% at sea level to prevent asphyxiation. Effects of oxygen deficiency resulting from simple asphyxiants may include: rapid breathing, diminished mental alertness, impaired muscular coordination, faulty judgment, depression of all sensations, emotional instability and fatigue. As asphyxiation progresses, nausea, vomiting, prostration and loss of consciousness may result, eventually leading to convulsions, coma and death.

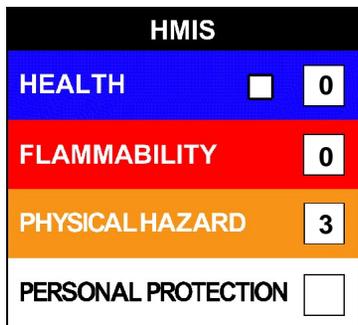
Oxygen deficiency during pregnancy has produced developmental abnormalities in humans and experimental animals.

Skin Contact: Non-irritating. Contact with rapidly expanding gas near the point of release may cause frostbite with redness, skin color change to gray or white, and blistering.

Eye Contact: Non-irritating. Contact with rapidly expanding gas near the point of release may cause frostbite.

NFPA: Health = 0, Fire = 0, Reactivity = 0, Specific Hazard = n/a

HMIS III: Health = 0, Fire = 0, Physical Hazard = 3



3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7727-37-9	99.9-99.9995%	Nitrogen

4 FIRST AID MEASURES

Inhalation: PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO PRODUCT. RESCUE PERSONNEL SHOULD BE EQUIPED WITH SELF-CONTAINED BREATHING APPARATUS. Conscious persons should be assisted to an uncontaminated area and inhale fresh air. Quick removal from the contaminated area is most important. Unconscious persons should be moved to an uncontaminated area, given assisted (artificial) respiration and supplemental oxygen. The physician should be informed the patient has inhaled quantities of hydrogen sulfide.

Skin Contact: Non-irritating. None required for gas. For frostbite, immerse skin in lukewarm water. DO NOT USE HOT WATER. Obtain medical attention.

Eye Contact: Non-irritating. None Required for gas. If frostbite is suspected, flush eyes with cool water for 15 minutes and obtain immediate medical attention.

Ingestion: Not a direct hazard.

5 FIRE FIGHTING MEASURES

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Flammability:	Not Flammable
Flash Point:	None
Flash Point Method:	Not Applicable
Burning Rate:	Not Applicable
Autoignition Temp:	None
LEL:	None
UEL:	None

Fire and Explosion Hazards:

Nonflammable. Cylinders may rupture violently or vent rapidly from pressure when involved in a fire situation.

Extinguishing Media:

None required. Use as appropriate for surrounding materials

Fire Fighting Instructions:

Firefighters should wear respiratory protection (SCBA) and full turnout or Bunker gear. Continue to cool fire-exposed cylinders until well after flames are extinguished.

6**ACCIDENTAL RELEASE MEASURES**

Evacuate all personnel from affected area. Use appropriate protective equipment. If leak is in user's equipment, be certain to purge piping with inert gas prior to attempting repairs. If leak is in container or valve, contact the appropriate emergency telephone number listed in section 1, or call your closest Norco/NorLab location.

7**HANDLING AND STORAGE****Handling Precautions:**

Use only in well-ventilated areas. Valve protection caps must remain in place unless the cylinder is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure regulator when connecting cylinder to lower pressure (<3000 PSIG) piping or systems. Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous backflow into the cylinder.

For additional recommendations, consult Compressed Gas Association Pamphlets P-1.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid from in an enclosed space such as a car trunk, van or station wagon. A leak can result in a fire, explosion, asphyxiation or a toxic exposure.

Storage Requirements:

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavy traffic areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 125 degrees F (52 degrees C). Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders from being stored for excessive periods of time. Post "NO SMOKING OR OPEN FLAMES" sign in the storage or use area.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION****Engineering Controls:**

Use local exhaust in combination with general ventilation as necessary to prevent accumulation of high concentrations and maintain air oxygen levels at or above 19.5%.

Personal Protective Equipment:

HMIS PP, B | Safety Glasses, Gloves

Eye/Face Protection:

Safety goggles or glasses as appropriate for the job.

Skin Protection:

Protective gloves of material appropriate for the job.

Respiratory Protection:

Positive pressure air line with full-face mask and escape bottle or self-contained breathing apparatus should be available for emergency use.

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Other/General Protection:
Safety shoes.

Nitrogen
OSHA PEL: None Established
ACGIH PEL: Simple Asphyxiant
LC₅₀ or LD₅₀: Not Available
RTECS#: QW9700000
IDLH: None Established

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless Gas	Odor:	Odorless
Physical State:	Gas	Molecular Formula:	N ₂
Odor Threshold:	Not Applicable	Solubility:	Very slightly soluble
Particle Size:	Not Applicable	Softening Point:	Not Applicable
Spec Grav./Density:	0.97 (Gas) Air =1	Percent Volatile:	100%
Viscosity:	Not Applicable		
Sat. Vap. Conc.:	100%		

10 STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to Avoid:	None known
Materials to Avoid:	Metalic Lithium, Potassium Titanium, Neodymium, Zirconium, and other reactive metals. (source: NFPA)
Hazardous Decomposition:	Not known.
Hazardous Polymerization:	Will not occur.

11 TOXICOLOGICAL INFORMATION

Skin & Eye:
Not expected to cause skin or eye irritation

Inhalation:
Product is a simple asphyxiant. Maintain atmospheric oxygen at or above 19.5%.

Oxygen deficiency during pregnancy has produced developmental abnormalities in humans and experimental animals.

12 ECOLOGICAL INFORMATION

Product does not contain Class I or Class II ozone depleting substances. Not toxic. Will not bioconcentrate.

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION

DOT Class: Non-Flammable Gas (2.2) #2.2
UN1066, Nitrogen, 2, (Nitrogen, Compressed)

UNProper Shipping Name US:
UN1066, Nitrogen, Compressed, 2.2



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Proper Shipping Name Canada:
UN1066, Nitrogen, Compressed, 2.2

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REGULATORY INFORMATION

COMPONENT / (CAS/PERC) / CODES

*Nitrogen (7727379 99.9-99.9995%)MASS, PA, TSCA

SARA Title III - Supplier Notification:

This product does not contain chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and for 40 CFR372:

SARA Title III - Hazard Classes

Acute Health Hazard
Sudden Release of Pressure Hazard

California Proposition 65:

This product does not contain ingredient(s) known to the State of California to cause cancer or reproductive toxicity.

REGULATORY KEY DESCRIPTIONS

MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act

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OTHER INFORMATION

Disclaimer:

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