

Zero Air

SDS Number: NLB 2550

Revision Date: 5/31/2018

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

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NorLab a division of Norco 898 W. Gowen Rd. Boise, ID 83705

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

Product Name:	Zero Air
Revision Date:	5/31/2018
Version:	2
SDS Number:	NLB 2550
Common Name:	Zero Air
CAS Number:	Not Available
EPA Number:	Not Available
Chemical Family:	Gas Mixture
Chemical Formula:	20.9% Oxygen in Nitrogen
Synonyms:	Oxygen in Nitrogen, Zero Gas, Extra Dry Air, Hydrocarbon Free Air
Product Use:	Calibration of analyitical instrumentation,

For Transportation Emergency Contact CHEMTREC: 800-424-9300

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 Statements

GHS Signal Word: WARNING

GHS Hazard Pictograms:



GHS Hazard Statements:

H280 - Contains gas under pressure; may explode if heated CGA-HG24 - SUPPORTS COMBUSTION.

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.

CGA-PG05 - Use a back flow preventive device in the piping.

CGA-PG20 - Use only equipment of compatible materials of construction.

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).



SDS

Safety Data Sheet

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Hazards not Otherwise Classified (HNOC) or not Covered by GHS

Route of Entry:	Inhalation;
Target Organs:	Respiratory system;
Inhalation:	None expected. This product contains sufficient oxygen to sustain life.
Skin Contact:	Non-irritating. Contact with rapidly expanding gas near the point of release may cause frostbite.
Eye Contact:	Non-irritating. Contact with rapidly expanding gas near the point of release may cause frostbite.
Ingestion:	Not anticipated. Product is a gas at normal conditions.

NFPA:Health = 0, Fire = 0, Reactivity = 0, Specific Hazard = n/aHMIS III:Health = 0, Fire = 0, Physical Hazard = 3HMIS PPE:B - Safety Glasses, Gloves



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COMPOSITION/INFORMATION OF INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
7727-37-9 7782-44-7		Nitrogen Oxygen

4		FIRST AID MEASURES
Inhalation:	Not	considered dangerous.
Skin Contact:		-irritating. None required for gas. For frostbite, immerse skin in lukewarm water. DO NOT USE HOT IER. Obtain medical attention.
Eye Contact:		-irritating. None Required for gas. If frostbite is suspected, flush eyes with cool water for 15 minutes and in immediate medical attention.
Ingestion:	Not	a direct hazard.

5	FIRE FIGHTING MEASURES	
Flammability:	Not Flammable	
Flash Point:	None	
Flash Point Method:	Not Applicable	
Burning Rate:	Not Applicable	
Autoignition Temp:	None	
LEL:	None	
UEL:	None	





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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:

Use water spray to cool adjacent cylinders and areas. 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

No hazard expected. If a leak is in user's equipment, be certain to purge piping with an inert gas prior to attempting repairs. If leak is in container 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.		
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.		
8	EXPOSURE CONTROLS/PERSONAL PROTECTION		
Engineering Controls: Personal Protective Equipment:	Use mechanical (general) ventilation for storage areas. Nitrogen cas#:(7727-37-9) [79.1%] Oxygen cas#:(7782-44-7) [20.9%]		

Personal protective equipment

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Full contact Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested:Butoject (KCL 897 / Aldrich Z677647, Size M)

Splash protection: Material: Chloroprene Minimum layer thickness: 0.6 mm Break through time:

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30 min Material tested:Camapren (KCL 722 / Aldrich Z677493, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Air OSHA PEL: Not Applicable ACGIH PEL: Not Applicable LC_{50} or LD_{50} : Not Applicable RTECS #: Not Available IDLH: Not Available

9	PHYSICAL AND CHEMICAL PROPERTIES			
Appearance: Physical State: Odor Threshold: Particle Size: Spec Grav./Density: Viscosity: Flammability:	Colorless Gas Gas Not Applicable Not Applicable 1 (Air = 1) Not Applicable Non Flammable	Odor: Molecular Formula: Softening Point: Percent Volatile:	Odorless O2 + N2 Not Applicable 100%	
10	STABILITY AND REACTIVITY			
Chemical Stability: Conditions to Avoid: Materials to Avoid: Hazardous Decompositie Hazardous Polymerizatio				

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TOXICOLOGICAL INFORMATION

Air is non toxic.

Nitrogen cas#:(7727-37-9) [79.1%] Oxygen cas#:(7782-44-7) [20.9%]

Information on toxicological effects

Acute toxicity: Oral LD50 no data available Inhalation LC50 Dermal LD50 Other information on acute toxicity

Skin corrosion/irritation: no data available



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Serious eye damage/eye irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects: Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation.

Signs and Symptoms of Exposure: May be harmful., Nausea, Headache, Vomiting

Synergistic effects: no data available

Additional Information:

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ECOLOGICAL INFORMATION

Nitrogen cas#:(7727-37-9) [79.1%] Oxygen cas#:(7782-44-7) [20.9%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: no data available

DISPOSAL CONSIDERATIONS

Do not attempt to dispose of residual waste or unused quantities in returnable containers. Return in shipping container,





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properly labeled, with any valve outlet plugs or caps secured and valve protection cap in place to Norco for proper disposal.

TRANSPORT INFORMATION

UN1002, Air, compressed, 2.2

UNProper Shipping Name US: UN1002, Air, Compressed, 2.2

Proper Shipping Name Canada: UN1002, Air, Compressed, 2.2





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REGULATORY INFORMATION

Component (CAS#) [%] - CODES

Nitrogen (7727-37-9) [79.1%] MASS, PA, TSCA

Oxygen (7782-44-7) [20.9%] MASS, PA, TSCA

Regulatory CODE Descriptions

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

16 OTHER INFORMATION

Disclaimer:

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