

Material Safety Data Sheet

MSDS ID: 4594895

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Revision 8: 01/28/2004

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| *** Section 1 - Chemical Product and Company Identification *** |
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Product Name: Compressed Breathing Air

Part No Various

Product Use: This is type 1, Grade D breathing air which meets the specifications of The Compressed Gas Association (CGA) Commodity Specification for Air, Pamphlet G-7.1.

Manufacturer Information

Draeger Safety, Inc.
101 Technology Drive
Pittsburgh, PA 15275-1057

Phone: (412) 787-8383
Fax: (412) 787-2207
Emergency # 1-800-424-9300 (CHEMTREC)

NOTE: CHEMTREC emergency telephone number is to be used in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

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| *** Section 2 - Composition / Information on Ingredients *** |
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| CAS # | Component | Percent |
|-----------|-----------|-----------|
| 7727-37-9 | Nitrogen | 76.5-80.5 |
| 7782-44-7 | Oxygen | 19.5-23.5 |

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

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| *** Section 3 - Hazards Identification *** |
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Emergency Overview

CAUTION ! CONTENTS UNDER PRESSURE. This product is a clear, colorless, non-flammable gas enclosed under high pressure in a cylinder. High pressure gas may accelerate combustion. High pressure air released from cylinder may cause injury if released into eyes, skin or any orifice. Container may rupture if exposed to heat or flames.

Potential Health Effects: Eyes

No significant eye irritation can be expected from contact with this product. High pressure air released from cylinder may cause injury if released into eyes.

Potential Health Effects: Skin

No significant skin irritation is expected from contact with this product.

Potential Health Effects: Ingestion

No significant adverse effects are expected upon ingestion of the product.

Potential Health Effects: Inhalation

Air is non-toxic and necessary to support life. At atmospheric pressure air has no adverse health effects.

HMIS Ratings: Health: 0 Fire: 0 Reactivity: 0 Pers. Prot.: safety glasses, gloves

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

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| *** Section 4 - First Aid Measures *** |
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First Aid: Eyes

No need for first aid is anticipated if material gets in eyes.

First Aid: Skin

No need for first aid is anticipated if material comes in contact with the skin.

First Aid: Ingestion

No need for first aid is anticipated if material is swallowed.

First Aid: Inhalation

No need for first aid is anticipated if material is inhaled.

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*** Section 5 - Fire Fighting Measures ***

Flash Point: Not applicable

Upper Flammable Limit (UFL): Not available

Auto Ignition: Not available

Rate of Burning: Not available

General Fire Hazards

This material is non-flammable. Product will support combustion of flammable and combustible materials. Pressurized Container: May explode when exposed to heat or flame.

Hazardous Combustion Products

None identified.

Extinguishing Media

Use any media suitable for the surrounding fires. Use water to cool fire-exposed containers and to protect personnel. Evacuate all personnel from danger area.

Fire Fighting Equipment/Instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

NFPA Ratings: Health: 0 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop source of leak if possible. Avoid bodily exposure to high pressure air release.

Clean-Up Procedures

Wear safety glasses or face shield to protect eyes.

Evacuation Procedures

Keep unnecessary people away.

*** Section 7 - Handling and Storage ***

Handling Procedures

Use proper care when handling and protect cylinders from physical damage. Close cylinder valves when not in use and when empty. Secure cylinders at all times. Do not drag, slide or roll cylinders. Do not deface cylinders or labels. Use regulator piping and equipment adequately designed for pressures encountered. Only to be filled with air fit for human consumption. Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipments of a compressed gas cylinder, which has not been filled by the owner or with his (written) consent, is a violation of Federal Law (49 CFR). Handle according to Compressed Gas Association guidelines.

Storage Procedures

Cylinders should be stored upright and be firmly secured to prevent falling or being knocked over. Protect cylinders from physical damage. Store in a No Smoking area. Store cylinders away from heavily trafficked areas and emergency exits. Store in cool, dry, well-ventilated area away from flammable or combustible materials, corrosives, moisture, heat, ignition sources and out of direct sunlight. Do not store above 130° F (54° C). Store according to Compressed Gas Association guidelines.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

No occupational exposure limits established by OSHA, ACGIH, or NIOSH.

B: Component Exposure Limits

Nitrogen (7727-37-9)

ACGIH: simple asphyxiant

Engineering Controls

Not required.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Approved safety glasses or face shield.

Personal Protective Equipment: Skin

Wear leather or other appropriate work gloves, if necessary for type of operation.

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Personal Protective Equipment: Respiratory

None necessary.

Personal Protective Equipment: General

Wear safety shoes and hearing protection.

*** Section 9 - Physical & Chemical Properties ***

Appearance: Colorless
Physical State: Gas
Vapor Pressure: Gas @ 20° C

Boiling Point: -317.8° F (-194.3° C)
Solubility (H₂O): Negligible

Odor: Odorless
pH: Not applicable
Vapor Density: 1 (Cylinder filled to 2216/3000/4500 psig)
Melting Point: Not applicable
Specific Gravity: Not applicable

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Avoid flammable and combustible materials such as greases and oils which may form explosive mixtures with air.

Incompatibility

Flammable and combustible materials.

Hazardous Decomposition

None.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute Toxicity

A: General Product Information

Compressed air breathed at sea level (atmospheric pressure) is non-toxic and has no adverse health effects. Compressed air breathed in high pressure environments can cause a buildup of nitrogen in blood and tissues. Nitrogen buildup can have symptoms including tingling of the fingers and toes, abnormal sensations, along with impaired coordination and confusion. Decompression sickness "the bends" is possible following rapid decompression and should be treated by a physician immediately.

B: Component Analysis - LD₅₀/LC₅₀

No LD₅₀/LC₅₀'s are available for this product's components.

Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No data available for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Allow gas to discharge at moderate rate. Remove all flammable materials from vicinity.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Air, compressed

Hazard Class: 2.2

UN/NA #: UN1002

Required Label(s): NON-FLAMMABLE GAS

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No information available.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

| Component | CAS # | CA | FL | MA | MN | NJ | PA |
|-----------|-----------|----|-----|-----|-----|-----|-----|
| Nitrogen | 7727-37-9 | No | Yes | Yes | Yes | Yes | Yes |
| Oxygen | 7782-44-7 | No | Yes | Yes | No | Yes | Yes |

A: Component Analysis - Inventory

| Component | CAS # | TSCA | DSL | EINECS |
|-----------|-----------|------|-----|--------|
| Nitrogen | 7727-37-9 | Yes | Yes | Yes |
| Oxygen | 7782-44-7 | Yes | Yes | Yes |

B: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

*** Section 16 - Other Information ***

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. EINECS = European Inventory of Existing Commercial Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Material Information System. IARC = International Agency for Research on Cancer. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NA = Not available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TLV = Threshold Limit Value. TSCA = Toxic Substance Control Act.

Contact: Product Manager

Contact Phone: (412) 787-8383

This is the end of MSDS # 4594895