

Material Safety Data Sheet

ASI Part#: **BBG-00 & BBG-00103**



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**For Chemical Emergency Spill Leak Fire Exposure or Accident Call
CHEMTREC Day or Night**

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

Identification

Name: RECONSTITUTED AIR CAS #: Not Established

Chemical Family: Gas Mixture

Chemical Formula: O₂: 19.5-23.5%; N₂: 76.5-80.5%

MSDS ID Code #: 1002

Synonyms: CGA Grade O Breathing Air, Extra Dry Air

Zero Air, H₂O Free Air, Synthetic Air

Hazard Rating: Health 0 Negligible

Fire 0 Negligible

Reactivity 0 Negligible

Composition/Information on Ingredients

Ingredient Name: NITROGEN CAS Number: 7727-37-9

OXYGEN CAS Number: 7782-44-7

Concentration Percent by Weight:

76.5 to 80.5

19.5 to 23.5

Exposure Limits: Simple Asphyxiant – maintain oxygen levels above 19.5%

Hazard Identification

No data given.

Physical Data

Boiling Point: -317.8° F / -194.3° C

Vapor Density (Air =1): 1.0 @ STP

Appearance: Colorless Gas

Vapor Pressure: Above critical temperature

Solubility (H₂O): Slightly soluble

Odor: Odorless

Fire Fighting Measures

Flammable Properties

Fire and Explosive Hazards

Electrical Classification

Extinguishing Media

Fire Fighting Instructions

Flash Point: N/A

Vigorously accelerates combustion.

Nonhazardous

Water spray to keep cylinders cool

If possible, stop the flow of gas, which is supporting the fire.

Exposure and Effects – Inhalation

Routes of Exposure – Inhalation

Air is nontoxic and necessary to support life. However, high pressure effects (greater than two atmospheres) act on the central nervous system by the accumulation of nitrogen in the blood. Inhalation of air in high-pressure environment such as underwater diving, caissons or hyperbaric chambers can result in symptoms similar to overexposure to pure oxygen. These include tingling of fingers and toes, abnormal sensations, impaired coordination and confusion. Decompression sickness pains or “bends” are possible following rapid decompression.

First Aid – Inhalation

Facilities or practices at which air is breathed in a high-pressure environment should be prepared to deal with the illnesses associated with decompression (bends or caissons disease). Decompression equipment may be required.

Toxicological Information

Miscellaneous Toxicological Information

Carcinogenicity – NTP: No

IARC: No

OSHA: No

Reactivity and Polymerization

Stability: Stable

Hazardous Decomposition Products: None

Incompatible Materials: All flammable materials.

Hazardous Polymerization: Will not occur

Spill, Leak and Disposal Procedures

Waste Disposal Methods

Non-refillable (disposable) cylinders: For non-refillable cylinders, vent to atmospheric in a well ventilated area then dispose of used cylinder in standard waste receptacle. Do not attempt to refill disposable cylinder. Follow all local solid waste disposal regulations.

Special Protective Measures

Eye/Face Protection: Safety goggles or glasses.

Other/General Protection: Safety shoes, safety shower.

Skin Protection: Protective gloves made of any suitable material.

Special Precautions – Storage and Handling

Storage and Handling Conditions

Use only in well ventilated areas. Valve protection caps must remain in place unless container 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-reducing 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 back flow into the system.

Protect cylinders from physical damage. Store in cool, dry, well-ventilated area away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130° F (54° 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 stored for excessive periods of time. Post NO SMOKING OR OPEN FLAMES signs in the storage area or use area. There should be no sources of ignition in the storage or use area.

For additional storage recommendations, consult Compressed Gas Association’s P-1, G-7, and G-7.1.

Never carry a compressed gas cylinder or a container of a gas in cryogenic liquid form 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.

Shipping Information

Proper Shipping Name: Air, Compressed

DOT Identification Number: UN1002

Hazard Class: 2.2

DOT Shipping Label: Nonflammable gas

Reference Documentation

Dry air is noncorrosive and may be used with all materials of construction. Moisture causes metal oxides, which are formed with, air to be hydrated so that they increase in volume and lose their protective role (rust formation). Concentrations of SO₂, C₁₂, salt, etc. in the moisture enhances the rusting of metals in air.

Oxygen should not be used as a substitute for compressed air in pneumatic equipment since this type generally contains flammable lubricants. Compressed gas cylinders should not be refilled, except by qualified producers of compressed gases. Shipment of a compressed gas cylinder, which has not been filled by the owner or with his (written) consent, is a violation of Federal Law (49CFR).

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