

Air
Material Safety
Data Sheet

BOGGS GASES

620 Main Street
 Titusville, FL 32796
 Phone: (321) 267-4110
 FAX: (321) 267-7171

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EMERGENCY PHONE #: Chemtrec 1-800-424-9300		Created: January 01, 2003 Revised: January 01, 2007	
MANUFACTURER'S NAME: BOGGS GASES 620 Main Street Titusville, FL 32796-3488 Ph: (321) 267-4110 FAX: (321) 267-7171		TRADE NAME AND SYNONYMS: Air, Compressed Air, Breathing Air	CHEMICAL NAME AND SYNONYMS: Air
		FORMULA 79% Nitrogen, 21% Oxygen	CHEMICAL FAMILY: N/A

HEALTH HAZARD DATA

EXPOSURE LIMITS: Air is nontoxic and has no threshold limit value (TLV). Air is not listed as carcinogen by NTP, IARC, or OSHA.
SYMPTOMS IF INGESTED, CONTACTED WITH SKIN, OR VAPOR INHALED: Air is odorless and nontoxic, and is necessary to support life. Inhalation of air at high pressure, such as pressures that may exist in hyperbaric chambers, can result in similar symptoms to those of exposure to oxygen. Inhalation of air at high pressures can also result in accumulation of nitrogen in the blood which may result in decompression sickness (bends).
TOXICOLOGICAL PROPERTIES: Exposure to air in high pressure where the partial pressure of oxygen is in excess of two atmospheres may produce a variety of central nervous system manifestations including tingling of fingers and toes, visual and acoustical disturbances, abnormal sensations, impaired coordination, confusion, muscle twitching, and epileptform seizures. Severe hazards may be present when confusion and impaired judgement lead to operational errors. Exposure to high pressures may also result in nitrogen narcosis.
RECOMMENDED FIRST AID TREATMENT Facilities at which air is breathed under pressure should be prepared to deal with illness related to a hyperbaric environment. Decompression equipment may be required.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) N/A	AUTO IGNITION TEMP N/A	FLAMMABLE LIMITS Non-flammable	LEL N/A	UEL N/A
EXTINGUISHING MEDIA N/A			ELECTRICAL CLASSIFICATION GROUP N/A	
SPECIAL FIRE FIGHTING PROCEDURES N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS Cylinders exposed to high heat or flame may vent rapidly. At high pressure, air can accelerate normal combustion.				

PHYSICAL DATA

BOILING POINT (F) 1 atm -317.9F (-194.4C)	FREEZING POINT (F) Range: -351F to -358F (-213C to -216C)
VAPOR PRESSURE (psia) N/A	SOLUBILITY IN WATER @ 68F (20C), 1 ATM 1.87% by volume
SPECIFIC GRAVITY (AIR=1) @ 68F (20C), 1 atm 1.00	VAPOR DENSITY (lb/cu ft) @ 70F (21.1C), 1 atm 0.07520
APPEARANCE AND ODOR Gaseous air is colorless and odorless.	LIQUID DENSITY (lb/cu ft) @ boiling point, 1 atm 54.56
	SPECIFIC GRAVITY (H20=1) @ boiling point, 1 atm 0.874

REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Avoid the use of oil at full cylinder pressure.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) None			
HAZARDOUS DECOMPOSITION PRODUCTS None			
HAZARDOUS	MAY OCCUR		CONDITIONS TO AVOID
POLYMERIZATION	WILL NOT OCCUR	X	None

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SPILL OR LEAK PROCEDURES			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED			
No hazard			
WASTE DISPOSAL METHOD			
Do not attempt to dispose of residual Air in compressed gas cylinders. Return cylinders to Boggs Gases with residual pressure, the cylinder valve tightly closed and valve caps in place.			
SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type)			
None			
VENTILATION	LOCAL EXHAUST	None	SPECIAL
None	MECHANICAL (General)		None
	None		OTHER
			None
PROTECTIVE GLOVES			
Leather work gloves are recommended when handling compressed gas cylinders.			
EYE PROTECTION			
Safety glasses are recommended when handling high-pressure cylinders.			
OTHER PROTECTIVE EQUIPMENT			
Safety toes shoes are recommended when handling high-pressure cylinders.			
SPECIAL PRECAUTIONS*			
SPECIAL LABELING INFORMATION			
Compressed air must be shipped in accordance with D.O.T. Regulations using "NON-FLAMMABLE GAS" labels.			
SPECIAL HANDLING RECOMMENDATIONS			
Compressed gas cylinders contain Air at extremely high pressure and should be handled with care. Use a pressure-reducing regulator and pressure relief devices when connecting to lower pressure piping systems. Secure cylinders when in use. Never use a direct flame to heat a compressed gas cylinder. Use a check valve to prevent back flow into a storage container. Avoid dragging, rolling or sliding cylinders, even for a short distance. Use a suitable hand truck. For additional handling recommendations on compressed gas cylinders, consult Compressed Gas Association Pamphlet P-1.			
SPECIAL STORAGE RECOMMENDATIONS			
Keep cylinders away from sources of heat. Storage should not be in heavy traffic areas to prevent accidental knocking over or damage from passing or falling objects. Valve caps should remain on cylinders not connected for use. Segregate full and empty cylinders. Storage areas should be free of combustible material. Replace the cylinder cap when the cylinder is not in use. Avoid exposure to areas where salt or other corrosive chemicals are present. See Compressed GAs Association Pamphlet P-1 for additional storage recommendations.			
SPECIAL PACKAGING RECOMMENDATIONS			
Gaseous air containers meet DOT specifications or American Society of Mechanical Engineers (ASME) codes.			
OTHER RECOMMENDATIONS OR PRECAUTIONS			
Compressed gas cylinders should not be refilled except by qualified producers of compressed gases. Shipment of a compressed gas cylinder filled without the permission of the owner is a violation of Federal Law.			

* Various Government agencies (i.e., Department of Transportation, Occupational Safety and Health Administration, Food and Drug Administration and others) may have specific regulations concerning the transportation handling, storage or use of this product which will not be reflected in this data sheet. The customer should review these regulations to ensure that s/he is in full compliance.