

Zero Air

PORTAGAS Inc.
P.O. BOX 230039

HOUSTON, TX 77223

(800)

Material Safety Data Sheet

PRODUCT NAME

(Description)

MSDS # 10002500/10005000

REVISION 2 - DEC/1998

Compressed Air
Air Compressed, Synthetic

TRADE NAME & SYNONYMS

Calibration Gas -

Air Zero Grade
Air Ultra Zero
Air CO Free
20.9% Molar Oxygen, Nitrogen balance
CHEMICAL NAME & SYNONYMS

Air, Compressed

Air, Synthetic (19.5 - 23.5% Molar Oxygen, Nitrogen balance)

FORMULA

See above.

CAS NUMBERS

Air N/A
For Oxygen and Nitrogen see their respective MSDSs

CHEMICAL FAMILY

N/A

Judgements as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, Portagas Inc. extends no warranties, makes no representations, and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's, intended purposes or consequences of its use. Since Portagas Inc. has no control over the use of this product, it assumes no liability for damages or loss of product resulting from proper (or improper) use or application of the product. Data sheets may be changed from time to time. Be sure to consult the latest edition.

Material Safety Data Sheet

HEALTH HAZARD DATA

TIME WEIGHTED AVERAGE (TWA) EXPOSURE LIMITS (ACGIH 1986-87 and later)

N/A

SYMPTOMS OF EXPOSURE

Air is nontoxic; however, inhalation of air in high pressure environment circumstances, may result in impairment of coordination and dizziness.

TOXICOLOGICAL PROPERTIES

High pressure effects occur on the central nervous system.

RECOMMENDED FIRST AID TREATMENT

Treatment for the effects of breathing in a high pressure environment may be indicated.

POTENTIALLY HAZARDOUS MIXTURES WITH OTHER CHEMICALS

None

Material Safety Data Sheet

PHYSICAL DATA

MOLECULAR WEIGHT	SPECIFIC GRAVITY
28.966	Air = 1
VAPOR PRESSURE	
@70F, above Critical Temperature OF -220.4F	
LIQUID DENSITY AT BOILING POINT	GAS DENSITY AT STP
54.7 lb/ft ³ average	0.0749 lb/ft ³ average
FREEZING TEMPERATURE	SOLUBILITY IN WATER
-317.8F	0.0183 Bunsen coefficient

APPEARANCE AND ODOR

Shipped in compressed gas cylinders under pressure (typically 240 - 1000 psig).

Vapor is colorless and odorless.

FIRE & EXPLOSION HAZARD DATA

FLAMMABLE LIMITS % BY VOLUME

N/A

EXTINGUISHING MEDIA

Nonflammable gas

NFPA 704 NUMBER (HFR)

0 0 0

ELECTRICAL CLASSIFICATION

Nonhazardous

FLASH POINT

N/A

AUTO IGNITION TEMPERATURE

N/A

SPECIAL FIRE FIGHTING PROCEDURES

None.

UNUSUAL HAZARDS

When the mixture is involved in a fire, the compressed air at high pressures will accelerate the burning of materials at a greater rate.

REACTIVITY DATA

Material Safety Data Sheet

STABILITY

Stable

INCOMPATIBILITY

None

HAZARDOUS DECOMPOSITION PRODUCTS

None

HAZARDOUS POLYMERIZATION PRODUCTS

None

CONDITIONS TO AVOID

N/A

ACTIONS TO BE TAKEN IN THE EVENT OF AN UNINTENDED RELEASE (LEAK)

FOR EMERGENCIES INVOLVING THIS PRODUCT CALL INFOTRAC (800)535-5053

If deemed necessary, and safe to do so, shut off the flow of gas and purge lines with an inert gas. Switch off non-essential electrical equipment.

WASTE DISPOSAL METHODS

Do not attempt to dispose of any unused quantities of product or their containers without contacting Portagas for instructions.

PERSONAL PROTECTION INFORMATION

RESPIRATORY/VENTILATION

None.

GLOVES

Any material.

EYES AND OTHER

Safety goggles or glasses only, contact lenses are not recommended
Steel toed/metatarsal protection shoes.

SPECIAL SAFETY AND REGULATORY CONSIDERATIONS

Material Safety Data Sheet

LABELING	DOT Shipping name:	Air, compressed
	DOT Shipping Label:	Nonflammable Gas
	Identification No.:	UN 1002
	Hazard Class, Div.:	Nonflammable Gas, 2.2
	IATA Packing Inst.:	200

HANDLING

Use only in well ventilated areas. The cylinder should be secured with a chain, strap on its side or by use of a stand when connected to a regulator. Do not drag, drop or roll the cylinder. Use both hands when carrying the cylinder. Do not heat the cylinder. One-way check valves in the use line are recommended to prevent backflow. Systems should be cleaned "for Oxygen service" before first use.

STORAGE

Protect the cylinders from physical damage. Store the cylinders in a cool (<130F), dry, ventilated, posted "no smoking or open flames" area constructed of non-combustible materials, and away from aisles and other traffic areas. Keep full cylinders separated from empties. Rotate stock first-in, first-out (FIFO).

PACKAGING

Use the cylinders as provided, with the recommended regulator. Do not attempt to refill the cylinder or transfill the product from one container to another.

OTHER PRECAUTIONS

Do not attempt to refill the cylinder or transfill the product from one container to another.