



MATERIAL SAFETY DATA SHEET

(Essentially similar to U.S. Department of Labor Form OSHA 201)
An explanation of the terms used herein may be found in OSHA
publication 2265, available from OSHA regional or area offices
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I. PRODUCT IDENTIFICATION

PRODUCT Air (High Pressure Gas)

CHEMICAL NAME Air	SYNONYMS Synthetic air, reconstituted air
FORMULA ---	CHEMICAL FAMILY ---
	MOLECULAR WEIGHT ---

TRADE NAME Air

II. HAZARDOUS INGREDIENTS

For mixtures of this product request the respective component Material Safety Data Sheets
See Section IX

MATERIAL	Wt (%)	1982 ACGIH TLV-TWA (Units)
Air	100	Not hazardous

III. PHYSICAL DATA

BOILING POINT, 760 mm. Hg	NA	FREEZING POINT	NA
SPECIFIC GRAVITY (H ₂ O = 1)	Gas	VAPOR PRESSURE AT 20°C.	Gas
VAPOR DENSITY (air = 1)	1.0	SOLUBILITY IN WATER, % by wt.	Negligible
PERCENT VOLATILES BY VOLUME	100	EVAPORATION RATE (Butyl Acetate = 1)	NA

APPEARANCE AND ODOR Colorless, odorless, synthetic gas.

EMERGENCY PHONE NUMBER

IN CASE OF EMERGENCIES involving this material, further information is available at all times at 304 - 744 3487
For routine information contact your local supplier.

Union Carbide Corporation requests the users of this product to study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product a user should (1) notify its employees, agents and contractors of the information on this MSDS and any product hazards and safety information, (2) furnish this same information to each of its customers for the product, and (3) request such customers to notify their employees and customers for the product of the same product hazards and safety information.

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IV. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not hazardous

EFFECTS OF OVEREXPOSURE AND EMERGENCY AND FIRST AID PROCEDURES

NA

V. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT
(test method)

NA

AUTOIGNITION
TEMPERATURE

NA

FLAMMABLE LIMITS
IN AIR, % by volume

LOWER

NA

UPPER

NA

EXTINGUISHING MEDIA

Oxidizing agent. May accelerate combustion. Use media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES

Evacuate all personnel from danger area. Immediately cool cylinders with water spray from maximum distance until cool then move containers away from fire area if without risk. Shut off leak if without risk.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Oxidizing agent, may accelerate combustion. Contact with flammable materials may cause fire or explosion. Container may rupture due to heat of fire. No part of a container should be subjected to a temperature higher than 52°C (approximately 125°F). Most containers are provided with a pressure relief device designed to vent contents when they are exposed to elevated temperature.

VI. REACTIVITY DATA

STABILITY		CONDITIONS TO AVOID
UNSTABLE	STABLE	
	X	

See Section IX.

INCOMPATIBILITY (materials to avoid)

Flammable materials.

HAZARDOUS DECOMPOSITION PRODUCTS

NA

HAZARDOUS POLYMERIZATION		CONDITIONS TO AVOID
May Occur	Will not Occur	
	X	

None currently known.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED

Shut off cylinder, if without risk.

WASTE DISPOSAL METHOD

Slowly release into atmosphere. Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

N 1 required.

VENTILATION	LOCAL EXHAUST	---
	MECHANICAL (general)	Adequate
	SPECIAL	---
	OTHER	---

PROTECTIVE GLOVES

Preferred for cylinder handling.

EYE PROTECTION

Safety glasses

OTHER PROTECTIVE EQUIPMENT

Metatarsal shoes for cylinder handling.

IX. SPECIAL PRECAUTIONS

WARNING: High pressure gas. May accelerate combustion. Keep oil and grease away. Close valve when not in use and when empty. Use piping and equipment adequately designed to withstand pressures to be encountered.

FIGURES: When two or more gases, or liquefied gases are mixed, their hazardous properties may combine to create additional, unanticipated hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an Industrial Hygienist, or other trained person when you make your safety evaluation of the end product. Remember, gases and liquids have properties which can cause serious injury or death.

OTHER HANDLING AND STORAGE CONDITIONS

Store and use away from flammable materials.

The opinions expressed herein are those of qualified experts within Union Carbide Corporation. We believe that the information contained herein is current as of the date of this Material Safety Data Sheet. Since the use of this information and these opinions and the conditions of use of the product are not within the control of Union Carbide Corporation, it is user's obligation to determine the conditions of safe use of the product.

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OFFICES IN PRINCIPAL CITIES

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