

Material Safety Data Sheet



Air

Section 1. Chemical product and company identification

Product Name : Air
Supplier : Ideal Gases, Inc.
14056 Fort St.
Southgate, MI 48195

(248) 663-2377
Product use : Synthetic/Analytical chemistry.
Synonym : Compressed Air ; Breathing Quality Air
MSDS# : 001002
Date of Preparation/Revision : **10/4/2007.**
In case of emergency : 1-800-424-9300

Section 2. Hazards identification

Physical state : Gas.
Emergency overview : Warning!
CONTENTS UNDER PRESSURE.
Do not puncture or incinerate container.
Contact with rapidly expanding gases can cause frostbite.
Routes of entry : Inhalation
Potential acute health effects
Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : Ingestion is not a normal route of exposure for gases
Potential chronic health effects : **CARCINOGENIC EFFECTS** Not available.
MUTAGENIC EFFECTS Not available.
TERATOGENIC EFFECT : Not available.
Medical conditions aggravated by overexposure : Acute or chronic respiratory conditions may be aggravated by overexposure to this gas.
See toxicological Information (section 11)

Section 3. Composition, Information on Ingredients

Name _____

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training. If fumes are still suspected to be present, the rescuer should wear an appropriate mask or a self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin contact : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Frostbite : Try to warm up the frozen tissues and seek medical attention.
Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

Air

- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

Section 5. Fire fighting measures

Flammability of the product : Non-flammable.

Products of combustion : These products are nitrogen oxides (NO, NO₂...).

Fire fighting media and instructions : Use an extinguishing agent suitable for surrounding fires.

If involved in fire, shut off flow immediately if it can be done without risk. Apply water from a safe distance to cool container and protect surrounding area.

No specific hazard.

Special protective equipment for fire-fighters : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 7. Handling and storage

Handling : Do not puncture or incinerate container. High pressure gas. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure Controls, Personal Protection

Engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory : No special protection is required.

The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Personal protection in case of a large spill : No special protection is required.

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight	: Not applicable.
Molecular formula	: Not applicable.
Boiling/condensation point	: -194.3°C (-317.7°F)
Melting/freezing point	: -216.2°C (-357.2°F)
Critical temperature	: The lowest known value is -146.9°C (-232.4°F) (nitrogen).
Vapor density	: The highest known value is 1.105 (Air = 1) (oxygen). Weighted average: 1 (Air = 1)
Specific Volume (ft³/lb)	: Not applicable.
Gas Density (lb/ft³)	: 0.0749

Section 10. Stability and reactivity

Stability and reactivity	: The product is stable.
Incompatibility with various substances	: Not considered to be reactive according to our database.

Section 11. Toxicological information

Other toxic effects on humans	: No specific information is available in our database regarding the other toxic effects of this material for humans.
Specific effects	
Carcinogenic effects	: No known significant effects or critical hazards.
Mutagenic effects	: No known significant effects or critical hazards.
Reproduction toxicity	: No known significant effects or critical hazards.



Section 12. Ecological information


Products of degradation	: These products are nitrogen oxides (NO, NO ₂ ...).
Toxicity of the products of biodegradation	: The product itself and its products of degradation are not toxic.
Environmental fate	: Not available.
Environmental hazards	: No known significant effects or critical hazards.
Toxicity to the environment	: Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation. Return cylinders with residual product to Airgas, Inc. Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1002	Air, compressed	2.2	Not applicable (gas).		-
TDG Classification	UN1002	Air, compressed	2.2	Not applicable (gas).		Explosive Limit and Limited Quantity Index 0.125 Passenger Carrying

Air						
						Road or Rail Index 75
Mexico Classification	UN1002	Air, compressed	2.2	Not applicable (gas).		-

Section 15. Regulatory information

United States

- U.S. Federal regulations** : TSCA 8(b) inventory: nitrogen; oxygen
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: nitrogen; oxygen
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: nitrogen: Sudden Release of Pressure; oxygen: Fire hazard, Sudden Release of Pressure, Delayed (Chronic) Health Hazard
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

- State regulations** : Pennsylvania RTK: nitrogen: (generic environmental hazard); oxygen: (generic environmental hazard)
 Massachusetts RTK: nitrogen; oxygen
 New Jersey: nitrogen; oxygen

Canada

- WHMIS (Canada)** : Class A: Compressed gas.
 CEPA DSL: nitrogen; oxygen

Section 16. Other information

United States

- Label Requirements** : CONTENTS UNDER PRESSURE.

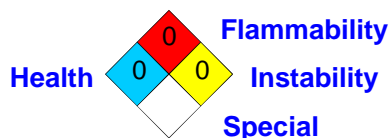
Canada

- Label Requirements** : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.)

Health	0
Fire hazard	0
Reactivity	0
Personal protection	C

National Fire Protection Association (U.S.A.)



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
 Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.