



Material Safety Data Sheet

1. Product and Company Identification

Product name : **Air, Compressed**

Chemical formula : Mixture of N₂ & O₂

Synonyms : Compressed air, synthetic air, reconstituted air, medical air, medical air USP.

Company : Specialty Gases of America, Inc
6055 Brent Dr.
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

2. Composition/Information on Ingredients

| Components | CAS Number | % Volume |
|------------|-------------|--------------|
| Air: | 132259-10-0 | --- |
| Oxygen | 7782-44-7 | 19.5 – 23.5% |
| Nitrogen | 7727-37-9 | 76.5 – 80.5% |

3. Hazards Identification

Emergency Overview

High-pressure gas.
May accelerate combustion.

Potential Health Effects

Inhalation : No harm expected.
Eye contact : No harm expected.
Skin contact : No harm expected.
Ingestion : This product is a gas at normal temperature and pressure.
Chronic Health Hazard : None known.

4. First Aid Measures

General advice : None.

Eye contact : Flush eyes thoroughly with water. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. If discomfort persists, seek medical attention.

Skin contact : Flush with water. If discomfort persists, seek medical attention.

Ingestion : No emergency care anticipated.

Inhalation : No emergency care anticipated.

5. Fire-Fighting Measures

Suitable extinguishing media : Air cannot catch fire. Use media appropriate for surrounding fire.

- Specific hazards : Contact with flammable materials may cause fire or explosion. Heat of fire can build pressure in cylinder and cause it to rupture. No part of cylinder should be subjected to a temperature higher than 125 F (52 C). Compressed air cylinders are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT).
- Fire fighting : CAUTION! High pressure gas. Evacuate all personnel from danger area. Immediately deluge cylinders with water from maximum distance until cool; then move them away from fire area if without risk. On-site fire fighters must comply with OSHA 29 CFR 1910.156. Firefighters should wear personal protective equipment and fire-fighting turnout gear as appropriate for surrounding fire.

6. Accidental Release Measures

- Personal precautions : Shut off flow if without risk.
- Environmental precautions : Keep personnel away. Discard any product, residue, disposable container, or liner in an environmentally acceptable manner, in full compliance with federal, state and local regulations. If necessary, call your local supplier for assistance.
- Methods for cleaning up : None.
- Additional advice : None.

7. Handling and Storage

Handling

May accelerate combustion. Keep oil and grease away. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide or drop. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. Never insert an object (e.g. wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Open valve slowly. If valve is hard to open, discontinue use and contact your supplier. Close valve after each use; keep closed even when empty.

Storage

Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125 F (52 C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods.

8. Exposure Controls / Personal Protection

Engineering measures

Not applicable.

Personal protective equipment

- Respiratory protection : Not required.
- Hand protection : Wear work gloves when handling cylinders.
- Eye protection : Wear safety goggles.
- Skin and body protection : Metatarsal shoes for cylinder handling.
- Ventilation : None.
- Remarks : None.

9. Physical and Chemical Properties

- Form : Gas.
- Color : Colorless.

Odor : None.
Molecular weight : 28.975
Vapor pressure : Not applicable.
Vapor density : 0.07493 lb/ft³ (1.2000 kg/m³) @ 70 F (21.1 C)
Specific gravity : 1.00 (air = 1)
Boiling point : -317.8 F (-194.3 C)
Freezing point : -352.2 F (-216.2 C)
Water solubility : 0.0292% @ 32 F

10. Stability and Reactivity

Stability : Stable under normal conditions.
Conditions to avoid : None known.
Materials to avoid : Flammable and combustible materials.
Hazardous decomposition products : None known.

11. Toxicological Information

Acute Health Hazard

Ingestion : Not applicable.
Inhalation : Not applicable.
Skin : Not applicable.

12. Ecological Information

No adverse ecological effects expected.

13. Disposal Considerations

Waste from residues / unused products : Do not attempt to dispose of residual or unused quantities. Return cylinder to supplier.
Contaminated packaging : Return cylinder to supplier.

14. Transport Information

DOT (US only)

Proper shipping name : Air, Compressed
Class : 2.2
UN/ID No. : UN1002
Labeling : Non-Flammable Gas

Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

15. Regulatory Information

OSHA Process Safety (29 CFR 1910.119) Hazard Class(es)
Not regulated.

TCSA

Material is listed in TSCA inventory.

SARA Sections 302/304 (40 CFR 355)

Threshold Planning Quantity (TPQ): None

Reportable Quantities (RQ) of Extremely Hazardous Substances (EHS): None

SARA Sections 311/312

Immediate: No

Delayed: No

Pressure: Yes

Reactivity: No

Fire: No

SARA Section 313 (40 CFR 372.65)

Not regulated.

CERCLA (40 CFR Parts 117 and 302)

Reportable Quantity (RQ): None

16. Other Information

Prepared by : Specialty Gases of America, Inc.

For additional information, please visit our website at www.americangasgroup.com.