

# SAFETY DATA SHEET (SDS)

GHS and OSHA 29 CFR §1910.1200 (eCFR) compliant

UN1002



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## AIR, COMPRESSED GAS AIR, COMPRESSED UN 1002

**STOODY INDUSTRIAL AND WELDING SUPPLY, INC.**  
3316 National Ave., San Diego, Ca. 92113  
Phone: 619-234-6750

[WWW.STOODYIND.COM](http://WWW.STOODYIND.COM)

**PHONE NUMBERS**  
Product Information: 619-234-6750

**24-hour Emergency Response**  
Professional Emergency Resource Services  
800-633-8253

**MILITARY EMERGENCY RESPONSE**  
800-851-8061

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6830-00-255-2420	6830-00-973-7275	6830-01-431-1149 (Refill)
6830-00-454-9486	6830-01-264-2660	6830-01-169-0774 (Refill)
6830-00-765-0156	6830-01-431-1141	6830-01-537-8718 (Refill)
6830-00-782-2638		

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### SUPPLIER INFORMATION:

Safety and handling equipment, gas cylinders and refills, personal protection equipment, fire extinguishers, cylinder services, respirators, etc. are available at Stody Industrial and Welding Supply, Ind. Our main location is at 3316 National Avenue, (near the 32<sup>nd</sup> Street Naval Base) in San Diego California 92113. Call 1-619-234-6750 or visit our web site, [stodyind.com](http://stodyind.com) for more information.

**DISCLAIMER:** The information contained herein is accurate to the best of our knowledge. Stody Industry and Welding Supply Inc., does not assume any responsibility or liability for user's reliance or consequences of reliance on the information provided in this SDS. **Stody industrial and Welding Supply, Inc. makes no warranty or guarantee of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances.**

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GHS and OSHA 29 CFR §1910.1200 (eCFR) compliant




## AIR, Compressed Gas

### 1 IDENTIFICATION

- 1(a) **Product identifier used on label**  
Air, compressed gas
- 1(b) **Other means of identification:** NONE
- 1(c) **Recommended use of the chemical and restrictions on use**  
Recommended use: (1) purging, (2) pressurizing, (3) breathing grade air only  
Restriction on use: NONE
- 1(d) **Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party**  
Chemical Manufacturer: STOODY INDUSTRIAL AND WELDING SUPPLY, INC  
3316 National Avenue  
San Diego, CA 92113  
1-619-234-6750
- 1(e) **Emergency phone number**  
Professional Emergency Resource Services: 800-633-8253  
Military Emergency Resource: 800-851-8061

### 2 HAZARD(S) IDENTIFICATION

- 2(a) **Classification of chemical in accordance with paragraph (d) of §1910.1200**  
Nonflammable
- 2(b) **Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200**

Signal Word	Hazard Statement(s)	Symbol(s)	Precautionary Statements
Warning	(H280) Contains Gases under Pressure; may explode if heated	 Compressed Gas	(P410 + P403) Protect from sunlight. Store in a well-ventilated place.

- 2(c) **Describe any hazard not otherwise classified that have been identified during the classification process**  
Release of Compressed air at high pressures may accelerate combustion of other materials. Ruptured cylinder may rocket.
- 2(d) **Where an ingredient with unknown acute toxicity is used in a mixture at a concentration = 1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consist of ingredient(s) of unknown acute toxicity is required.**  
Compressed air consists of 0% of unknown acute toxicity.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

- 3(a) **Chemical name;** Air
- 3(b) **Common name;** Air, compressed
- 3(c) **CAS number and other unique identifiers;**  

<u>CAS Number</u> 132259-10-0	<u>Other unique identifiers</u> No applicable information is available.
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- 3(d) **Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.**  
No applicable information is available.

### 4 FIRST-AID MEASURES

- 4(a) **Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion;**

#### GASEOUS STATE, (1 atm), ROUTES OF EXPOSURE (yes or no)

INHALATION: Yes	SKIN: Yes	EYE CONTACT: Yes	INGESTION: Yes
Effects: Not harmful	Effects: Not harmful	Effects: Not harmful	Effects: Not harmful

#### RAPIDLY EXPANDING STATE ROUTES OF EXPOSURE (yes or no)

INHALATION: No	SKIN: Yes	EYE CONTACT: Yes	INGESTION: No
Effects: None expected	Effects: frostbite	Effects: frostbite	Effects: None expected

#### FIRST-AID:

**Inhalation;** none under normal use

**Skin frostbite;** frostbite, flush with lukewarm water, and obtain immediate medical attention. **DO NOT RUB EFFECTED**

**Eye frostbite;** flush eyes with cool water for 15 minutes and obtain immediate medical attention.

**Ingestion;** none under normal use

**5 FIRE-FIGHTING MEASURES**

**5(a) Suitable (and unsuitable) extinguishing media**

Use extinguishing media appropriate, e.g., dry chemical or CO<sub>2</sub>, for surrounding fire.  
 Move containers from fire area if you can do it without risk.  
 Damaged cylinders should be handled only specialists.

**5(b) Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).**

Pressure in a cylinder can build due to nearby fire heat and may rupture if pressure relief devices should fail to function.

**6 ACCIDENTAL RELEASE MEASURES**

SHUT OFF AIR SOURCE, IF POSSIBLE. IF LEAKING FROM CYLINDER OR CYLINDER VALVE, CONTACT YOUR SUPPLIER.

**6(a) Personal precautions, protective equipment, emergency procedures.**

Do not touch or walk through spilled material. Keep combustibles (wood, paper, oil, etc.) away from spilled material.  
 Wear cold insulating gloves that are clean (free of oil and grease), face shield and eye protection.

**6(b) Method and materials for containment and cleaning up.**

Isolate area until gas has dispersed.

**7 HANDLING AND STORAGE**

**7(a) Precautions for safe handling.**

(P403) Store in a dry place

**7(b) Conditions for safe storage, including any incompatibilities.**

Conditions for safe storage	Incompatibilities
1. Store and use with adequate ventilation. 2. Cylinders should be stored upright with valve protection cap in place and firmly secured to prevent falling or being knocked over. 3. Protect cylinders from physical damage; do not drag, roll, slide or drop. 4. Full and empty cylinders should be segregated. 5. Do not allow storage area temperature to exceed 125°F (52°C). Full and empty cylinders should be segregated. 6. Use a first-in, first-out inventory system to prevent full containers from being stored for long periods of time. 7. Compressed gas cylinders to be refilled by qualified producers of compressed gases only. 8. Use a suitable hand truck for cylinder movement. 9. Never attempt to lift a cylinder by its valve protection cap. 10. Keep cylinders and their valves free from oil and grease. 11. Open valve slowly. 12. If user experiences difficulty operating cylinder valve, discontinue use and contact supplier. 13. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into valve cap openings. Doing so may damage valve, causing a leak to occur. 14. Never strike an arc on a compressed gas cylinder or make a cylinder a part of an electrical circuit. 15. Use an adjustable strap wrench to remove over-tight or rusted caps.	No applicable information is available.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8(a) OSHA permissible exposure limit (PEL), American Conference of Governments Industrial Hygienists (ACGIH) Threshold Limits Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.**

Neither "exposure limit", "threshold limit" nor "other exposure limit" restrictions been established for compressed air.

**8(b) Appropriate engineering controls.**

Natural or mechanical air circulation is needed to maintain a safe working environment.

**8(c) Individual protection measures, such as personal protective equipment.**

Safety glasses/goggles, work gloves (gloves must be clean and free of oil or grease), and safety shoes are recommended when handling cylinders.

**9 PHYSICAL and CHEMICAL PROPERTIES**

a) Appearance (physical state, color, etc.)	Colorless Gas
b) Odor	Odorless
c) Odor threshold	Not applicable
d) pH	Not applicable
e) Melting point/freezing point	-357.2°F (-216.2°C) at 1 atm (Triple point = -352.1°F (-214.4°C)
f) Initial boiling point	-317.8°F (-194.3°C)
g) Flash point	Not applicable
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	Not applicable
j) Upper/lower flammability or explosive limits	Not applicable
k) Vapor pressure	760 mmHg @ -194°C
l) Vapor density	1.29 g/L @ 0°C1
m) Relative density	(air = 1)
n) Solubility(ies)	Water, .0292 Vol./Vol. At 32° F (0°C)
o) Partition coefficient: n-octanol/water	Not applicable
p) Auto-ignition temperature	Will not occur
q) Decomposition temperature	None
r) Viscosity	0.01853 cP @ 26.85°C

**10 STABILITY and REACTIVITY**

- 10(a) **Reactivity**  
Not considered to be reactive
- 10(b) **Chemical stability**  
Stable
- 10(c) **Possibility of hazardous reactions**  
None found
- 10(d) **Conditions to avoid (e.g., static discharge, shock, or vibration)**  
None found
- 10(f) **Incompatible materials**  
None found
- 10(g) **Hazardous decomposition products**  
Will not occur

**11 TOXICOLOGICAL INFORMATION**

*Description of the various toxicological (health) effects and available data used to identify those effects, including:*

- 11(a) **Information on likely routes of exposure (inhalation, ingestion, skin and eye contact);**  
No toxicological health effects. Air is not a substance having an acute toxicity. It is necessary to support life.
- 11(b) **Symptoms related to the physical, chemical and toxicological characteristics;**  
No identifiable acute toxicity. However, inhalation of air in high pressure environments can result in symptoms similar to overexposure to oxygen. Decompression equipment may be required if exposed to high pressure environment.
- 11(c) **Delayed and immediate effects and also chronic effects from short- and long-term exposure;**  
Immediate effects from high pressure (>2 atmospheres of oxygen) exposure include tingling of fingers, impaired coordination, and confusion. Decompression sickness (Bends) is possible following rapid decompression. Acquire medical attention in all cases.
- 11(d) **Numerical measures of toxicity (such as acute toxicity estimates);**  
No identifiable acute toxicity.
- 11(e) **Whether the hazardous chemical is listed in the International Toxicology Program (NTP) Report on Carcinogenic (latest edition) or has been found to be a potential carcinogenic in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.**  
Compressed air is not listed as a carcinogenic or potential carcinogenic by NTP, OSHA or IARC.

**12 ECOLOGICAL INFORMATION**

- 12(a) Ecotoxicity (aquatic and terrestrial, where available)**  
This product does not contain ecotoxicological properties, aquatic or terrestrial
- 12(b) Persistence and degradability**  
No adverse information found
- 12(c) Bioaccumulative potential**  
This product does not have a bioaccumulative potential
- 12(d) Mobility in soil**  
No adverse information found
- 12(e) Other adverse effects (such as hazardous to the ozone layer)**  
No adverse ecological effects are expected. Compressed air does not contain any Class I or Class II ozone depleting chemicals (40 CFR Part 82). Air is not listed as a marine pollutant by DOT (49 CFR Part 171).

**13 DISPOSAL CONSIDERATIONS**

- 13(a) Description of waste residue and information on their safe handling and method of disposal, including the disposal of any contaminated packaging.**  
Do not attempt to dispose of cylinder or its contents. Cylinder(s) and unused contents should be returned to supplier for disposal in accordance with appropriate Federal, State, local regulation.

**14 TRANSPORTATION INFORMATION**

- 14(a) UN number:** UN 1002
- 14(b) UN proper shipping name:** Air, compressed
- 14(c) Transportation hazard class(es):** 2.2 (Nonflammable Gas)
- 14(d) Packing group, if applicable:** Product is not listed
- 14(e) Environmental hazards (e.g.,) Marine pollutant (yes/No):** NO
- 14(f) Transport in bulk (according to Annex II of MARPOL 73/78 and IBC Code):**  
Product does not fall under purview of cited regulations.
- 14(g) Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside of their premises:**  
Cylinders should be properly separated from non-compatible gas cylinders and transported in a upright, secure position, in a well ventilated vehicle. The transportation of compressed gas cylinders in automobiles or in closed-body vehicles can present serious safety hazards and should be discouraged.

**15 REGULATORY INFORMATION**

- 15(a) Safety, health and environmental regulations specific for the product in question.**  
User(s) of this product is responsible for regulatory compliance on a federal, state, and local level.  
U.S. FEDERAL REGULATIONS:  
EPA - ENVIRONMENTAL PROTECTION AGENCY  
40 CFR PART 68, Risk Management for Chemical Accidental Release, does not list air as a regulated substance.  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (40 CFR Parts 117 and 302):  
Reportable Quantity (RQ): None  
SARA: Superfund Amendment and Reauthorization Act  
SECTION 302/304: Requires emergency planning on threshold planning quantities (TPQ) and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substances (40 CFR Part 355).  
Extremely Hazardous Substances: None  
Threshold Planning Quantity (TPQ): None  
SECTIONS 311/312: Require submission of material safety data sheets (MSDSs) and chemical inventory reporting with identification of EPA defined hazard classes (40 CFR Part 370). The hazard classes for this product are:  

IMMEDIATE:	No	PRESSURE:	Yes
DELAYED:	No	REACTIVITY:	No
		FIRE:	No

15(a) continued on page 5

**15 REGULATORY INFORMATION** (continued from page 4)

TSCA: Toxic Substance Control Act: Air is not listed on the TSCA inventory.

OSHA - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION:  
29 CFR 1910.119, Appendix A, does not list air as a highly hazardous chemical.

FDA - FOOD AND DRUG ADMINISTRATION:  
United States Pharmacopeia (USP): Air for medical use is regulated by the FDA as a prescription drug.

No adverse ecological effects are expected. Air does not contain any Class I or Class II ozone depleting chemicals (40 CFR Part 82). Air is not listed as a marine pollutant by DOT (49 CFR Part 171).

Shipment of compressed gas cylinders which have not been filled with the owner's consent is a violation of Federal law (49 CFR Part 173.301 (b)).

CANADIAN REGULATIONS: WHIMS Classification: **A** (compressed gas)

**16 OTHER INFORMATION, including date of preparation or last revision**

**16(a) OTHER INFORMATION:**

**DO NOT DISCHARGE TOWARD ANYONE**

SPECIAL PRECAUTIONS: Use piping and equipment adequately designed to withstand pressures to be encountered. Use a check valve or other protective apparatus in any line or piping from the cylinder to prevent reverse flow.

Atmospheric air that is compressed is composed of the following gases:

Nitrogen:	78%
Oxygen	21%
Argon	0.9%

Compressed air is also synthetically produced by mixing 79% nitrogen and 21% oxygen.

**NFPA RATINGS:**

**HEALTH-Blue: = 0    FLAMMABILITY-Red: = 0    INSTABILITY-Yellow: = 0    SPECIAL HAZARDS\*-White: =**  
**LEGEND: 0-4 – 0-least hazardous; 4-most hazardous**  
*\*OX (Oxidizers), W (Water reactives), SA (Simple Asphyxiants), (blank if no special hazard)*

**STANDARD VALVE CONNECTIONS FOR U.S. AND CANADA:**

<b>THREADED:</b> 0-3000 psig	CGA 346 or POST, [CGA 590 (alternate for industrial air)]
3001-5500 psig	CGA 347
5501 - 7500 psig	CGA 702
<b>PIN-INDEXED YOKE:</b> 0-3000 psig	

Use the proper CGA connections, DO NOT USE ADAPTERS

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