



Issue date March 1, 2015

Reviewed date March 1, 2018

Safety Data Sheet

SDS ID# 2005

Section 1. IDENTIFICATION

1.1. Product identifier

Product form : Mixture

Product name : Air, Compressed

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product use : Calibration gas/Bumptest gas/Function test gas

1.3. Details of the supplier of the safety data sheet

Intermountain Specialty Gases
520 N. Kings Road
Nampa, ID 83687
Telephone 1-208-466-9425 or Toll free 1-800-552-5003
Fax 1-208-466-9144
www.isgases.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300

Section 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification GASES UNDER PRESSURE - Compressed gas

2.2. Label elements

Hazard pictograms



Signal word : WARNING

Hazard statements : H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
: CGA-HG24 - MAY SUPPORT COMBUSTION

Precautionary statements

[General] : Read and follow all Safety Data Sheets (SDS's) before use. Read label before use. Keep out of reach of children. If medical advice is needed, have a product container or label at hand. Use equipment rated for cylinder pressure.



- [Prevention] : P202 - Do not handle until all safety precautions have been read and understood
: P271+P403- Use only outdoors or in a well-ventilated area
- [Response] : Not applicable
- [Storage] : CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
- [Disposal] : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

No data available

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Not applicable

Name	Product Identifier	%
Nitrogen	(CAS No) 7727-37-9	76.5 - 80.5
Oxygen	(CAS No) 7782-44-7	19.5 - 23.5

Section 4. FIRST AID MEASURES

4.1. Description of first aid measures

- General : IF exposed or concerned: Get medical advice/attention.
- Inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- Skin contact : Adverse effects not expected from this product.
- Eye contact : Adverse effects not expected from this product.
- Ingestion : Ingestion is not considered a potential route of exposure, refer to the inhalation section.

4.2. Most important symptoms and effects, both acute and delayed

Acute

- Inhalation : No known significant effects or critical hazards
- Skin contact : Contact with rapidly expanding gas may cause burns or frostbite.
- Eye contact : Contact with rapidly expanding gas may cause burns or frostbite.
- Ingestion : Ingestion is not considered a potential route of exposure, refer to the inhalation section.
- Frostbite : Thaw frosted parts with lukewarm water. Do not rub affected areas. Get immediate medical advice/attention.
- Symptoms/injuries upon intravenous administration : Not known.



Chronic symptoms : Adverse effects not expected from this product.
Delayed : Adverse effects not expected from this product.

4.3. Indication of any immediate medical attention and special treatment needed

If victim feels unwell, seek medical advice. If breathing is difficult, give artificial respiration or oxygen by trained personnel.

Section 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media : None known

5.2. Special hazards arising from the substance or mixture

Fire hazard : The product is not flammable
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
Reactivity : None known.

5.3. Advice for fire-fighters

Firefighting instructions : In case of fire: Evacuate all personnel from the danger area. Stop the leak and flow of gas before extinguishing fire, if safe to do so. If this is not possible, withdraw from area and allow fire to burn. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Let the fire burn. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Exercise caution when fighting any chemical fire.
Protection during firefighting : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus, SCBA) for fire fighters. Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation.
6.1.1. For non-emergency personnel
Protective equipment : Wear protective equipment consistent with the site emergency plan.
Emergency procedures : Escape the danger area by the closest safe route. Close doors and windows of adjacent premises. Keep containers closed. Mark the danger area. Seal off low-lying areas. Keep upwind.
6.1.12. For emergency responders
Protective equipment : Standard protective clothing and equipment (e.g., Self Contained Breathing Apparatus) for fire fighters. Equip cleanup crew with proper protection.
Emergency procedures : Evacuate and limit access. Ventilate area. See information above "For non-emergency personnel".

6.2. Methods and material for containment and cleaning up

For containment : Immediately contact emergency personnel. Try to stop gas leak if safe to do so.
Methods for cleaning up : Dispose of content and/or container in accordance with local, regional, national,



and/or international regulations.

Section 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safety handling : Pressurized container: Do not pierce or burn, even after use. Use equipment rated for cylinder pressure. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Protect cylinders from physical damage; do not drag, roll, slide, or drop.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : None known.

Storage conditions : Do not expose to temperatures exceeding 52°C (125°F). Store locked up. Keep containers closed when not in use. Protect cylinder from physical damage. Store in well ventilated area.

Incompatible products : None known.

Incompatible materials : None known.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Nitrogen (7727-37-9)					
OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH 2015 TLV	
ppm	mg/m ³	(as of 4/26/13)	(as of 4/26/13)	8-hour TWA (ST) STEL (C) Ceiling	
		8-hour TWA (ST) STEL (C) Ceiling	up to 10-hour TWA (ST) STEL (C) Ceiling		
There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.				Simple asphyxiant	

Oxygen (7782-44-7)					
OSHA PEL		Cal/OSHA PEL	NIOSH REL	ACGIH 2015 TLV	
ppm	mg/m ³	(as of 4/26/13)	(as of 4/26/13)	8-hour TWA (ST) STEL (C) Ceiling	
		8-hour TWA (ST) STEL (C) Ceiling	up to 10-hour TWA (ST) STEL (C) Ceiling		
There are no specific exposure limits for Nitrogen. Nitrogen is a simple asphyxiant (SA). Oxygen levels should be maintained above 19.5%.					

8.2. Appropriate engineering controls

Engineering measures/controls : Provide adequate general and local exhaust ventilation. Systems under pressure should be regularly check for leakages. Ensure exposure is below occupational exposure limits. Oxygen detectors should be used when asphyxiating gases may me released. Consider work permit system e.g. for maintenance activities.



8.3. Individual protection measures

Hand protection	: Wear working gloves when handling gas containers. 29CFR 1910.138: Hand Protection.
Eye protection	: Wear safety glasses with side shields. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing, e.g.-Lab coats, coveralls or flame resistant clothing.
Respiratory protection	: None necessary during normal and routine operations. See sections 5&6.
Thermal hazard protection	: None necessary during normal and routine operations.
Environmental exposure controls	: Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.
Other information	: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Exposure controls

Appearance	: Clear, colorless gas.
Physical state	: Gas
Color	: Colorless
Odor	: No data available
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable for gas-mixtures.
Freezing point	: -216.2 °C
Boiling point	: -194.3 °C
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Not Flammable - not combustible
Upper flammability	: Not Flammable - not combustible
Lower flammability	: Not Flammable - not combustible
Vapor pressure	: Not applicable
Vapor density at 20°C	: No data available
Relative density	: 1.2 kg/m ³
Relative gas density	: Lighter or similar to air
Solubility	: No data available
Partition coefficient	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: Not applicable

Section 10. STABILITY AND REACTIVITY

10.1. Reactivity

No reactivity hazard other than the effects described below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available.



10.4. Conditions to avoid

No additional information available.

10.5. Incompatible materials

No additional information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity

11.1. Information on routes of exposure

- Inhalation : Not classified
- Skin contact : Adverse effects not expected from this product
- Eye contact : Adverse effects not expected from this product
- Ingestion : Ingestion is not considered a potential route of exposure
- Intravenous administration : Not known
- Chronic symptoms : Adverse effects not expected from this product

11.2. Symptoms related to physical, chemical and toxicological characteristics

Symptoms Simple asphyxiant. May cause suffocation by displacing the oxygen in the air. Exposure to oxygen-deficient atmosphere (<=18%) may cause dizziness, drowsiness, nausea, vomiting, excess salivation, diminished mental alertness, loss of consciousness and death. Exposure to atmospheres containing 8-10% or less oxygen will bring about unconsciousness without warning and so quickly that the individuals cannot help or protect themselves. Lack of sufficient oxygen may cause serious injury or death.

11.3. Delayed and immediate effects

- Skin corrosion/irritation : Contact with rapidly expanding gas may cause burns or frostbite.
 - Serious eye damage/irritation : Contact with rapidly expanding gas may cause burns or frostbite.
 - Respiratory or skin sensitization : Not classified
 - Germ cell mutagenicity : Not classified
 - Carcinogenicity : Not classified
 - Reproductive toxicity : Not classified
 - Specific target organ toxicity (single exposure) : Not classified
 - Specific target organ toxicity (repeated exposure) : Not classified
 - Aspiration hazard : Not classified
- Not applicable for gases and gas-mixtures



11.4. Carcinogenic effects

The components of this material are not found on the following lists: FEDERAL OSHA Z LIST, NTP AND IARC; therefore, they are not considered to be, nor suspected to be, cancer-causing agents by these agencies.

Section 12. ECOLOGICAL INFORMATION

12.1. Aquatic Toxicity

Ecology - general : No ecological damage caused by this product

12.2. Persistence and degradability

No information available for the product

12.3. Bioaccumulative potential

No information available for the product

12.4. Mobility in soil

No information available for the product

12.5. Other

No information available for the product

Section 13. DISPOSAL CONSIDERATIONS

13.1. Disposal methods

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14. TRANSPORTATION INFORMATION

	US DOT	TDG	IMDG	IATA
UN #	UN 1002	UN 1002	UN 1002	UN 1002
Proper shipping name	Air, compressed	Air, compressed	Air, compressed	Air, compressed
Transport hazard class(es)	2.2	2.2	2.2	2.2
Packing group	-	-	-	-
Environment	No.	No.	No.	No.

Section 15. REGULATORY INFORMATION

15.1. US Federal regulations

SARA 311/312 hazard categories

Acute Health : No
Chronic Health : No



Fire : No
 Pressure : Yes
 Reactive : No

This product does not contain toxic chemicals subject to reporting requirements of section 313 of the Emergency planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

SARA 311/312 : Sudden Release of Pressure Hazard

15.2. US State regulations

Nitrogen (007727-37-9)

- U.S. - Massachusetts - Right To Know List
- U.S. - Minnesota - Right To Know Hazardous Substance List
- U.S. - New Jersey - Right To Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right To Know) List

Oxygen (007782-44-7)

- U.S. - Massachusetts - Right To Know List
- U.S. - New Jersey - Right To Know Hazardous Substance List
- U.S. - Pennsylvania - RTK (Right To Know) List

Section 16. OTHER INFORMATION

Date of issue/Date of revision : New SDS 3/1/2015
Revision Note : Initial release

Hazardous Material Information System (USA)

Hazard Scale : 0 = Minimal/ 1 = Slight/ 2 = Moderate/ 3 = Serious/ 4 = Severe
Health : 0
Fire : 0
Physical hazards : 0

Key/Legend

- SARA Superfund Amendments and Reauthorization Act
- OSHA Occupational Safety and Health Administration
- DOT Department of Transportation
- TSCA Toxic Substance Control Act
- NTP National Toxicology Program
- ACGIH American Conference of Governmental Industrial Hygienists
- PEL Permissible Exposure Limit
- STEL Short Term Exposure Limit
- TLV Threshold Limit Value
- TDG Transportation of Dangerous Goods
- CAS Chemical Abstracts Service
- CERCLA Comprehensive Environmental Response, Compensation, and Liability Act
- IATA International Air Transport Association
- IMDG International Maritime Dangerous Goods



TWA	Time Weighted Average
Prop	Proposition
ATE	Acute Toxicity Estimate

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