

# Intermountain Specialty Gases

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## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT

PRODUCT NAME: Carbon Dioxide//Nitrogen

SYNONYMS: Carbon Dioxide/Nitrogen

### 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient Name	Formula	CAS#	Concentration	TLV
Carbon Dioxide	CO2	124-38-9	100 ppm -10.0%	5000 ppm
Nitrogen	N2	7727-37-9	Balance	S/A

### 3. HAZARD IDENTIFICATION

POTENTIAL HEALTH EFFECTS: None Known

ROUTES OF ENTRY: Inhalation

ACUTE EFFECTS: None Known

CHRONIC EFFECTS: None Known

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: None Known

OTHER EFFECTS OF OVEREXPOSURE: Contact with rapidly expanding gas near the point of release may cause frostbite.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Carcinogenicity (US Only):

NTP – No

IARC MONOGRAPHS - No

OSHA REGULATED – No

#### NFPA Hazard Codes:

Health: 0  
Flammability: 0  
Instability: 0

#### HMIS Hazard Codes:

Health: 0  
Flammability: 0  
Physical Hazard: 3

#### Rating System

0 = No Hazard  
1 = Slight Hazard  
2 = Moderate Hazard  
3 = Serious Hazard  
4 = Severe Hazard

#### **4. First Aid Measures**

Inhalation: Immediately remove victim to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen.

Eye Contact: Immediately flush with copious amounts of water for at least 15 minutes.

Skin contact: Immediately flush with copious amount of water for at least 15 minutes.

Ingestion: None\

#### **5. Fire Fighting Measures**

Flash Point: N/Ap Gas

Autoignition Temperature: N/Ap

Flammable Limits: Nonflammable Gas

Lower:

Upper:

Extinguishing Media: Use what is appropriate for surrounding fire.

Special Fire fighting Instruction and Equipment: Wear self-contained breathing apparatus and full protective clothing. Keep fire from exposed cylinders and cool with water spray, If possible, stop the product flow.

Hazardous Combustion Products: None

Unusual Fire and Explosion Hazards: Cylinder rupture may occur under fire conditions.

#### **6. Accidental Release Measures**

Clean Up Procedures: Evacuate and ventilate area. Remove leaking cylinder to exhaust hood or safe outdoor area. Shut off cylinder if possible.

Specialized Equipment: None

#### **7. Handling and Storage**

Precautions To Be Taken In Handling: Secure cylinder when using to protect from falling.

Precautions To Be Taken In Storage: Protect cylinders from physical damage. Store in cool, dry, well ventilated area. Do not allow the temperature where cylinders are stored to exceed 125 degrees F.

## **8. Exposure Controls/Personal Protection**

Engineering Controls: Provide adequate general and local exhaust ventilation to maintain concentrations below exposure limits and to avoid asphyxiation.

Eye/Face Protection: Safety goggles or glasses as appropriate for the job.

Skin Protection: Protective gloves of material appropriate for the job.

Respiratory Protection: In case of leakage, use of self-contained breathing apparatus should be available for emergency use.

Other Protective Equipment: Safety Shoes

## **9. Physical And Chemical Properties**

Appearance: Colorless

Odor: Slight Carbonic Odor

Physical State: Gas

Vapor Pressure: N/Ap

Vapor Density (Air = 1): 1.0 – 1.007

Boiling Point ( C ): N/Ap

Solubility In Water: Slightly

Specific Gravity (H<sub>2</sub>O-1): Gas

Evaporation Rate: Gas

Odor Threshold: N/A

## **10. Stability and Reactivity**

Stability: Stable under normal storage conditions.

Conditions To Avoid: Storage in poorly ventilated areas. Storage near a heat source.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition: none

## **11. Toxicological Information**

Lethal Concentration: N/Ap

Established lethal Dose: N/Ap

Teratogenicity: N/Ap

Reproductive Effects: N/Ap

Mutagenicity: N/Ap

## **12. Ecological Information**

Product does not contain Class I or Class II ozone depleting substances. Not toxic. Not expected to be toxic to fish and wildlife. Will not bioconcentrate.

## **13. Disposal Considerations**

Waste Disposal Method: Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood, or return to Intermountain Specialty Gases.

## **14. Transport Information**

Proper Shipping Name: Compressed Gas N.O.S. (Carbon Dioxide, Nitrogen)

Hazard Class: 2.2

Identification Number: UN 1956

Shipping Label: Nonflammable Gas

## **15. Regulatory information**

SARA Title III Notifications and Information:

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 Title III – Hazard classes:

Sudden Release of Pressure Hazard

California Proposition 65:

This product does not contain ingredients (s) Known to the State of California to cause cancer or reproductive toxicity.

## **16. Other Information**

Other Precautions: Protect containers from physical damage. Do not deface cylinders or labels.

Abbreviations:

N/Ap – Not Applicable

N/Av – Not Available

SA – Simple Asphyxiant

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