

Intermountain Specialty Gases

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Material Safety Data Sheet

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Chemtrec 1-800-424-9300

1. CHEMICAL PRODUCT

PRODUCT NAME: Isobutylene/Air

SYNONYMS: Isobutylene/Air

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredient Name	Formula	CAS#	Concentration	TLV
Isobutylene	C4H8	115-11-7	5 ppm -0.9%	S/A
Oxygen	O2	7782-44-7	12.0% - 21.0%	N/A
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: Mild Sweetish Odor
Physical State: Gas
Vapor Pressure: N/Ap
Vapor Density (Air = 1): 1.0 - 1.001
Boiling Point (C): N/Ap
Solubility In Water: Slightly
Specific Gravity (H₂O-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. (Isobutylene, Nitrogen) or (Isobutylene, Air)
Hazard Class: 2.2
Identification Number: UN 1956
Shipping Label: Nonflammable Gas

15. REGULATORY INFORMATION

SARA Title III Notifications and Information: Isobutylene is Listed under the accident prevention provisions of section 112 (b) of the Clean Air Act (CAA) with a threshold quantity (TQ) of 10,000 pounds.

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.

15a. AGENCIES AND TERMS WHICH MAY BE PERTINENT TO THIS PRODUCT

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

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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