Intermo Specialty	Holium Compressed
Issue date March 1 Reviewed date March 1,	2018 SDS ID# 2085
Section 1. IDENTIFICATION 1.1. Product identifier Product form	: Mixture
Product name 1.2. Relevant identified use	: Helium, Compressed
Fax 1-208-466-9144 www.isgases.com	ses or Toll free 1-800-552-5003
1.4. Emergency telephoneEmergency numberSection 2. HAZARDS INDER	: CHEMTREC: 1-800-424-9300
2.1. Classification of the su Classification	bstance or mixture GASES UNDER PRESSURE - Compressed gas Simple asphyxiant - Yes
2.2. Label elements Hazard pictograms	
Signal word	: WARNING
Hazard statements	: H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED : OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION. : OSHA - PG01 - DO NOT REMOVE THIS PRODUCT LABEL
Precautionary statements	



Intermountain Specialty Gases

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[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 : P308+P313 - If exposed or concerned: Get medical advice/attention. : P271+P403- Use only outdoors or in a well-ventilated area
[Response]	: P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. : P313 - Get medical advice/attention.
[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	

Helium, Compressed

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

Name	Product Identifier	%
Helium	(CAS No) 7440-59-7	100

Section 4. FIRST AID MEAS 4.1. Description of first aid		
General	: IF exposed or concerned: Get medical advice/attention.	
Inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. I breathing has stopped, give artificial respiration or oxygen by trained personne victim feels unwell, seek medical advice.	
Skin contact	: Immediately flush with copious amount of water for at least 15 minutes.	
Eye contact	: Immediately flush with copious amount of water for at least 15 minutes.	
Ingestion	: Ingestion is not considered a potential route of exposure, refer to the inhalation	
	section.	
4.2. Most important sympt	toms/effects, acute and delayed	
Acute		
Inhalation	: May displace oxygen and cause rapid suffocation.	
Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.	
Eye contact	: Contact with rapidly expanding gas may cause burns or frostbite.	
EN (English US)	SDS ID# 2085	Page 2 of 9

Intermountain Specialty Gases	Helium, Compressed
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 Delayed	: Adverse effects not expected from this product. : 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 MEASURE 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 th	e 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

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 adjacent premises. Keep containers closed. Mark the danger area. Seal off logareas. 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.	
EN (English US)	SDS ID# 2085	Page 3 of 9

Intermountain Specialty Gases	Helium, Compressed
Emergency procedures	: Evacuate and limit access. Ventilate area. See information above "For non- emergency personnel".
6.2. Methods and material for contain	nment 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, inclu	ding 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 and use away from heat, sparks, open flame or any other ignition source. Store in well ventilated area.
Incompatible products	: None known.
Incompatible materials	: None known.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Helium (7440-59-7)				
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	up to 10-hour TWA	8-hour TWA
		(ST) STEL	(ST) STEL	(ST) STEL
		(C) Ceiling	(C) Ceiling	(C) Ceiling
Not Established	Not Established	Not Established	Not Established	Simple asphyxiant

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.



Intermountain Specialty Gases

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.gLab coats, coveralls or flame resistant clothing.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved
	standard if a risk assessment indicates this is necessary.
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.

Helium, Compressed

: Wear safety shoes while handling containers. 29 CFR 1910.136: Foot Protection

Other information

Section 9. PHYSICAL AND CHEMICA	AL PROPERTIES				
9.1. Exposure controls					
Appearance	: Clear, colorless gas.				
Physical state	: Gas				
Color	: Colorless				
Odor	: Odorless				
Odor threshold	: No data available				
рН	: No data available				
Freezing point	: No data available				
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				
Relative density	: No data available				
Solubility	: No data available				
Partition coefficient	: No data available				
Auto-ignition temperature	: No data available				
Decomposition temperature	: No data available				
Viscosity	: Not applicable				
	Helium				
Molecular weight (grams)	4				
Boiling point	-268.9 °C				
	Above critical				
Vapor pressure	temperature				
Vapor density at 20°C	0.138				
Relative gas density	0.165 kg/m ³ @				
	20 °C				
Critical Temperature	-267.9 °C				

Section 10. STABILITY AND REACTIVITY 10.1. Reactivity



Intermountain	
Specialty Gases	

No reactivity hazard other than the effects described	l below.
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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

None known

Section 11. TOXICOLOGICAL INFORMATION

Acute toxicity

: Adverse effects not expected from this product

Helium, Compressed

11.1. Information on route	es of exposure
Inhalation	: May displace oxygen and cause rapid suffocation.
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

11.2. Symptoms related to physical, chemical and toxicological characteristics

SymptomsSimple 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
Developmental Toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated	d: Not classified
exposure)	
Aspiration hazard	: Not classified
	Not applicable for gases and gas-mixtures



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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. TRANSPORATION INFORMATION

	US DOT	TDG	IMDG	ΙΑΤΑ
UN #	UN 1046	UN 1046	UN 1046	UN 1046
Proper shipping name	Helium, compressed	Helium, compressed	Helium, compressed	Helium, compressed
Transport hazard class(es)		2.2 NON-FLAMMABLE GAS	2.2 NON-FLAMMABLE GAS	2.2 NON-FLAMMABLE GAS
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
EN (English US)	



Intermountain Specialty C

Specialty Gases	Helium, Compressed
Fire	: No
Pressure	: Yes
Reactive	: No
SARA Section 313	SARA Title III Notification 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.

Sudden Release of Pressure Hazard

15.2. US St	ate regulations
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SARA 311/312

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

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	: 3							

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	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
TWA	Time Weighted Average	
Prop	Proposition	
ATE	Acute Toxicity Estimate	
Repr. 2	Reproductive toxicity Category 2	
EN (English US)	SDS ID# 2085	Page 8 of





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