



Safety Data Sheet
Calibration Gas Mixture: R410A

Section 1. Identification

Product identifier used on the label: Calibration Gas Mixture, R410A
Other means of identification: Part # RBxxL-R410A/xxxx
Product use: Calibration Standard
Supplier's details: Calibration Technologies, Inc.
 920 N Trade Winds Parkway Columbia, MO 65201 1-866-394-5861
Emergency telephone: 1-800-535-5053

Section 2. Hazards Identification

Classification: Compressed Gas

GHS label Elements

Signal word: Warning
Hazard statements: Compressed gas under pressure. May explode if heated
Hazard pictograms:


Storage: Protect from sunlight. Store in a well ventilated place
Precautionary statement: Use valve rated for cylinder pressure.

Section 3. Composition/Information on ingredients

Substance/mixture: Mixture

Ingredient name	%	CAS number	
Nitrogen	76.25-80.5	7727-37-9	76-80
Oxygen	19.5-23.5	7782-44-7	19-23
Difluoromethane	.0001-.002	75-10-5	.0001-.2
Pentafluoroethane	.0001-.002	354-33-6	.0001-.4
Difluoromethane	.0001-.002	75-10-5	.0001-.4

Section 4. First-aid measures

Description of necessary measures subdivided below:

Inhalation: Immediately remove victim to fresh air.
Eye Contact: Immediately flush with copious amounts of water for 15 minutes.
Skin Contact: N/Ap
Ingestion: N/Ap
Most important symptoms/effects: N/Ap
Immediate attention/special treatment needed: N/Ap

Section 5. Fire-fighting measures

Suitable extinguishing media: All
Unsuitable extinguishing media: None
Specific hazards arising from the chemical: N/Ap
Special protective equipment/precautions for fire-fighters: Contains gas under pressure. If heated, pressure will increase and cylinder may burst.

Section 6. Accidental release measures

Personal precautions, protective equipment, emergency procedures: Ventilate area, shut off valve, and remove from heat.
Methods and materials for containment/cleaning up: N/Ap

Section 7. Handling and storage

Precautions for safe handling: Use valve rated for cylinder pressure. Avoid breathing gas. Avoid contact with eyes
Conditions for safe storage, including any incompatibilities: Store in well ventilated area. Protect from elevated temperatures.

Section 8. Exposure controls/Personal protection

Control parameters/Occupation exposure limits:	Ingredient name	Exposure limits
	Difluoromethane	AIHA TWA: 1000ppm 8 hours
	Pentafluoroethane	AIHA TWA: 1000ppm 8 hours

Eye/Face protection: Safety glasses
Skin protection: N/Ap
Respiratory Protection: Avoid breathing gas
Other protective equipment: N/Ap

Section 9. Physical and chemical properties

Appearance (physical state, color, etc):	Colorless
Odor:	N/Ap
Odor threshold:	N/Ap
pH:	N/Ap
Melting point/freezing point:	N/Ap
Initial boiling point and boiling range:	N/Ap
Flash Point:	N/Ap
Evaporation rate:	N/Ap
Flammability (solid, gas):	Not Flammable
Upper/lower flammability or explosive limits:	N/Ap
Vapor pressure:	N/Ap
Vapor density:	1
Relative density:	N/Ap
Solubility (ies):	N/Ap
Partition coefficient: n-octanol/water:	N/Ap
Auto-ignition temperature:	N/Ap
Decomposition temperature:	N/Ap
Viscosity:	N/Ap

Section 10. Stability and reactivity

Reactivity:	N/Ap
Chemical stability:	Stable
Possibility of hazardous reactions:	N/Ap
Conditions to avoid:	N/Ap
Incompatible materials:	N/Ap
Hazardous decomposition products:	N/Ap

Section 11. Toxicological information

Lethal concentration (LC50):	>800,000ppm (R125 ingredient), Rat 4 hrs >520,000ppm (R32 ingredient) Inhalation, Rat 4 hrs
Lethal dose 50 (LD50):	N/Ap
Teratogenicity:	N/Ap
Reproductive effects:	N/Ap
Mutagenicity:	

Section 12. Ecological information

No adverse ecological effects are expected.

Section 13. Disposal considerations

Waste disposal method:	Non-refillable cylinder. Allow gas to vent slowly to atmosphere in an unconfined area until completely empty. Dispose of empty cylinder normally.
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Section 14. Transport information

UN Number:	1956
UN proper shipping name:	Compressed gases, n.o.s
Transport hazard class:	2.2 (nonflammable)
Identification number:	UN1956
Packing group:	II
Environmental hazards:	N/Ap
Transport in bulk:	N/Ap
Special precautions:	Must be shipped as Hazardous Materials.

Section 15. Regulatory information

Safety, health and environmental regulations

specific for the product in question:	N/Ap
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Section 16. Other information

Date of preparation/last revision:	6/15/2020
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