


**Safety Data Sheet
Calibration Gas Mixture: R404a**

Section 1. Identification	
Product identifier used on the label:	Calibration Gas Mixture, R404a
Other means of identification:	Part # RBxxL-R404a/xxxx
Product use:	Calibration Standard
Supplier's details:	Calibration Technologies, Inc. 920 N Trade Winds Parkway Columbia, MO 65240 1-866-394-5861 1-800-535-5053
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
Oxygen	19.5-23.5	7782-44-7
Trifluoroethane	.0001-.002	420-46-2
Pentafluoroethane	.0001-.002	354-33-6
Tetrafluoroethane	.0001-.002	811-97-2

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
	Tetrafluoroethane	AIHA TWA: 1000ppm 10 hours
	Trifluoroethane	AIHA TWA: 1000ppm 10 hours
	Pentafluoroethane	AIHA TWA: 1000ppm 10 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:	Slightly pungent
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):	>500,000ppm (R134a ingredient), Rat 4hrs >709,000ppm (R125 ingredient), Rat 4 hrs >540,000ppm (R143a ingredient), Rat 4hrs
Lethal dose 50 (LD50):	N/Ap
Teratogenicity:	N/Ap
Reproductive effects:	N/Ap
Mutagenicity:	N/Ap

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.
------------------------	---

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
--	------

Section 16. Other information

Date of preparation/last revision:	6/4/2015
------------------------------------	----------