


**Safety Data Sheet**  
**Calibration Gas Mixture: 4Gas-xx**

<b>Section 1. Identification</b>	
Product identifier used on the label:	Calibration Gas Mixture, 4Gas-xx
Other means of identification:	Part # RBxxL-4Gas-xx
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

<b>Section 2. Hazards Identification</b>	
Classification:	Compressed Gas
<u>GHS label Elements</u>	
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.

<b>Section 3. Composition/Information on ingredients</b>		
Substance/mixture:	Mixture	
<b>Ingredient name</b>	<b>%</b>	<b>CAS number</b>
Nitrogen	76.25-80.5	7727-37-9
Oxygen	15.0-23.5	7782-44-7
Methane	.1-2.0	74-82-8
Carbon Monoxide	.005-.02	630-08-0
Hydrogen Sulfide	.0001-.0025	7783-06-4

<b>Section 4. First-aid measures</b>	
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

<b>Section 5. Fire-fighting measures</b>	
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.

<b>Section 6. Accidental release measures</b>	
Personal precautions, protective equipment, emergency procedures:	Ventilate area, shut off valve, and remove from heat.
Methods and materials for containment/cleaning up:	N/Ap

<b>Section 7. Handling and storage</b>	
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.

<b>Section 8. Exposure controls/Personal protection</b>		
Control parameters/Occupation exposure limits:	<b>Ingredient name</b>	<b>Exposure limits</b>
	<b>Carbon Monoxide</b>	ACGIH TLV TWA: 25ppm 8 hours NIOSH REL TWA: 25ppm 10 hours OSHA PEL TWA: 50ppm 8 hours
	<b>Hydrogen Sulfide</b>	ACGIH TLV STEL: 5ppm 15 minutes TWA: 1ppm 8 hours OSHA PEL STEL: 15ppm 15 minutes TWA: 10ppm 8 hours
Eye/Face protection:	Safety glasses	
Skin protection:	N/Ap	
Respiratory Protection:	Avoid breathing gas	
Other protective equipment:	N/Ap	

<b>Section 9. Physical and chemical properties</b>	
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):	444 ppm (H2S ingredient) Rat 4 hrs 1807 ppm (CO 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.
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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

#### Section 16. Other information

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