



Safety Data Sheet Calibration

Gas Mixture: C2H4

Section 1. Identification

Product identifier used on the label:	Calibration Gas Mixture, C2H4
Other means of identification:	Part # RBxxL-C2H4/xxxx
Product use:	Calibration Standard
Supplier's details:	Calibration Technologies, Inc. 920 N Trade Winds Parkway Columbia, MO 65201 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
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Ingredient name	%	CAS number
Nitrogen	76.25-80.5	7727-37-9
Oxygen	19.5-23.5	7782-44-7
Ethylene	.01-2.5	74-85-1

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:	<table border="1"> <thead> <tr> <th>Ingredient name</th><th>Exposure limits</th></tr> </thead> <tbody> <tr> <td>Ethylene</td><td>ACGIH TLV (United States, 3/2017). TWA: 200 ppm 8 hours.</td></tr> </tbody> </table>	Ingredient name	Exposure limits	Ethylene	ACGIH TLV (United States, 3/2017). TWA: 200 ppm 8 hours.
Ingredient name	Exposure limits				
Ethylene	ACGIH TLV (United States, 3/2017). TWA: 200 ppm 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:	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):	N/Ap
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
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Section 16. Other information

Date of preparation/last revision:	3/16/2021
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