

This SDS complies with the US OSHA HCS 2012.

## 1. Product and Company Identification

**Product Code:** X006047  
**Product Name:** Leuco Fixative  
**Company Name:** CalibreScientific US, Inc.  
1311 SE Cardinal Ct Suite 170  
Vancouver, WA 98683  
**Phone Number:** 1 (360)260-2779  
**Web site address:** Alphatecsystems.com  
**Email address:** Regulatory@calibrescientific.com  
**Emergency Contact:** INFOTRAC  
International 00-1- (352)323-3500  
**Information:** North America 1 (800)535-5053  
**Intended Use:** For Laboratory Use Only  
**Product List**

## 2. Hazards Identification

Flammable Liquids, Category 2



**GHS Signal Word:** **Danger**  
**GHS Hazard Phrases:** H225 - Highly flammable liquid and vapor.  
**GHS Precautionary Phrases:** P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
**GHS Response Phrases:** P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P370+378 - In case of fire, use ... to extinguish.  
**GHS Storage and Disposal Phrases:** P403+235 - Store in cool/well-ventilated place.  
P501 - Dispose of contents/container to ...

## 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
64-17-5	Ethyl alcohol {Ethanol}	~80.0 %
7732-18-5	Water	~20.0 %

## 4. First Aid Measures

### Emergency and First Aid

#### Procedures:

<b>In Case of Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration.
<b>In Case of Skin Contact:</b>	Wash skin with soap and water. Get medical aid if symptoms occur.
<b>In Case of Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
<b>In Case of Ingestion:</b>	Do NOT induce vomiting. Wash mouth out with water. Get medical aid if symptoms occur.

## 5. Fire Fighting Measures

<b>Flash Point:</b>	12.00 C	Method Used:	Closed Cup
<b>Explosive Limits:</b>	LEL: No data.	UEL:	No data.
<b>Autoignition Pt:</b>	No data.		
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.		
<b>Fire Fighting Instructions:</b>	Wear self contained breathing apparatus for fire fighting if necessary.		
<b>Flammable Properties and Hazards:</b>	No data available.		
<b>Hazardous Combustion Products:</b>	Carbon oxides.		

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	For personal protection see section 8.
<b>Environmental Precautions:</b>	Do not empty into drains.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Use explosion-proof equipment. Avoid contact with skin and eyes.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a dry and well-ventilated place.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
64-17-5	Ethyl alcohol {Ethanol}	PEL: 1000 ppm	No data.	No data.
7732-18-5	Water	No data.	No data.	No data.

<b>Respiratory Equipment (Specify Type):</b>	Good laboratory practices should be followed which includes preventing eye contact and minimizing skin contact and inhalation.
<b>Eye Protection:</b>	Safety glasses.
<b>Protective Gloves:</b>	Gloves must be inspected prior to use.
<b>Other Protective Clothing:</b>	Flame retardant antistatic protective clothing.
<b>Engineering Controls (Ventilation etc.):</b>	No data available.

## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas    [X] Liquid    [ ] Solid
<b>Appearance and Odor:</b>	Appearance: colorless. Odor: alcohol-like.
<b>pH:</b>	No data.
<b>Melting Point:</b>	No data.
<b>Boiling Point:</b>	No data. / 0.0 mm Hg
<b>Flash Point:</b>	12.00 C    Closed Cup
<b>Evaporation Rate:</b>	No data.
<b>Flammability (solid, gas):</b>	No data available.
<b>Explosive Limits:</b>	LEL: No data.                      UEL: No data.
<b>Vapor Pressure:</b>	No data.
<b>Vapor Density (vs. Air=1):</b>	No data.
<b>Specific Gravity (Water=1):</b>	No data.
<b>Solubility in Water:</b>	No data.
<b>Saturated Vapor Concentration:</b>	No data.
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	No data.
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	No data.

## 10. Stability and Reactivity

<b>Stability:</b>	Unstable [ ]    Stable [X]
<b>Conditions To Avoid - Instability:</b>	flames and sparks. Heat.
<b>Incompatibility - Materials To Avoid:</b>	Ammonia, Oxidizing agents. Peroxides, Alkali metals.
<b>Hazardous Decomposition or Byproducts:</b>	No data available.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ]    Will not occur [X]
<b>Conditions To Avoid -</b>	No data available.

## Hazardous Reactions:

## 11. Toxicological Information

Toxicological Information: No data available.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

## 12. Ecological Information

No data available.

## 13. Disposal Considerations

Waste Disposal Method: Dispose of product in accordance with all federal, state, and local regulations.

## 14. Transport Information

GHS Classification: Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor

## LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Ethanol [or] Ethyl alcohol [or] Ethanol solutions [or] Ethyl alcohol solutions.

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1170 Packing Group: II



## LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Ethanol [or] Ethyl alcohol [or] Ethanol solutions [or] Ethyl alcohol solutions.

UN Number: UN1170 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID TDG Classification:

## MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: ISOPROPANOL.

UN Number: UN1170 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID

## AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: ISOPROPANOL.

UN Number: UN1170 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID

## 15. Regulatory Information

## EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
64-17-5	Ethyl alcohol {Ethanol}	No	No	No
7732-18-5	Water	No	No	No

## Other US EPA or State Lists

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
64-17-5	Ethyl alcohol {Ethanol}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - 1
7732-18-5	Water	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: No; PA HSL: No

## 16. Other Information

**Revision Date:** 02/28/2025 **Previous revision:** 03/19/2024

**Preparer Name:** A.Frontella

**Additional Information About This Product:** No data available.

**Document & Change Control Number** SDS0302.B.

**Company Policy or Disclaimer:** Disclaimer

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