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Revision: 03/07/2025

Supersedes Revision: 06/20/2023

This SDS complies with the US OSHA HCS 2012.

1. Product and Company Identification

0003350 **Product Code:**

Product Name: Acid-Ethanol 90%

Company Name: CalibreScientific US, Inc. **Phone Number:** 1 (360)260-2779

1311 SE Cardinal Ct Suite 170

Vancouver, WA 98683

Web site address: Alphatecsystems.com

Email address: Regulatory@calibrescientific.com

Emergency Contact: INFOTRAC

> International 00-1- (352)323-3500

North America 1 (800)535-5053 Information:

Intended Use: For Laboratory Use Only

Product List Acid-Ethanol 90%, Product Code Also Applies to: 0004406, 0003125, 0004627,

0004627S.

2. Hazards Identification

Flammable Liquids, Category 2

Acute Toxicity: Inhalation, Category 4 Acute Toxicity: Oral, Category 4

Specific Target Organ Toxicity (single exposure), Category 1

Skin Corrosion/Irritation, Category 3







GHS Signal Word: Danger

GHS Hazard Phrases: H225 - Highly flammable liquid and vapor.

> H302 - Harmful if swallowed. H316 - Causes mild skin irritation.

H332 - Harmful if inhaled.

H370 - Causes damage to organs

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.

P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel **GHS Response Phrases:**

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated

clothing. Rinse skin with water/shower.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position

comfortable for breathing.

P308+311 - If exposed of concerned: Call a POISON CENTER/Doctor/... P312 - Call a POISON CENTER or doctor/physician if you feel unwell.

P330 - Rinse mouth.



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P332+313 - If skin irritation occurs, get medical advice/attention.

P370+378 - In case of fire, use use CO@ carbon dioxide or alcohol resistant foam to

extinguish.

GHS Storage and Disposal

P403+235 - Store in cool/well-ventilated place.

Phrases:

P405 - Store locked up.

P501 - Dispose of contents/container to safe area according to state and local

guidelines.

Causes respiratory tract irritation. May be harmful if inhaled. Inhalation:

Causes skin irritation. May be harmful if absorbed through the skin. Skin Contact:

Eye Contact: Causes eye irritation.

Ingestion: Harmful if swallowed. May cause irritation of the digestive tract.

3. Composition/Information on Ingredients

CAS#	Hazardous Components (Chemical Name)	Concentration
64-17-5	Ethyl alcohol {Ethanol}	76.16 -85.12 %
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	1.792 -5.376 %
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	1.792 -5.376 %
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	0.1 -0.5 %

4. First Aid Measures

Emergency and First Aid

Procedures:

In Case of Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately.

> If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated

clothing and shoes.

In Case of Eye Contact: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and

lower eyelids. Get medical aid immediately.

Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of In Case of Ingestion:

milk or water.

Treat symptomatically and supportively. Note to Physician:

5. Fire Fighting Measures

11.70 C Method Used: Estimate Flash Point:

LEL: No data. UEL: No data. **Explosive Limits:**

> 350.00 C Autoignition Pt:

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand,

MSHA/NIOSH (approved or equivalent), and full protective gear.

Flammable Properties and

Hazards:

No data available.

Hazardous Combustion

Products:

No data available.



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6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation. Do not let this chemical enter the environment.

7. Handling and Storage

Precautions To Be Taken in

Handling:

Use with adequate ventilation. Minimize dust generation and accumulation. Avoid

contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Precautions To Be Taken in

Store in a cool, dry place. Store in a tightly closed container.

Storing:

8. Exposure Controls/Personal Protection							
CAS#	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits			
64-17-5	Ethyl alcohol {Ethanol}	PEL: 1000 ppm	TLV: 1000 ppm	No data.			
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.			
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.			
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	PEL: 10 ppm	TLV: 10 ppm STEL: 15 ppm	No data.			

Respiratory Equipment

(Specify Type):

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2

requirements or European Standard EN 149 must be followed whenever workplace

conditions warrant respirator use.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Protective Gloves:

Wear appropriate protective gloves to prevent skin exposure. Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls

Other Protective Clothing:

(Ventilation etc.):

Facilities storing or utilizing this material should be equipped with an eyewash facility and

a safety shower. Use adequate ventilation to keep airborne concentrations low.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Colorless/Clear.

alcohol-like.

No data. :Ha

Melting Point: -114.10 C - -88.00 C

64.70 C - 82.00 C / 0.0 mm Hg **Boiling Point:**

Flash Point: 11.70 C Estimate

Evaporation Rate: No data.

No data available. Flammability (solid, gas):

LEL: No data. UEL: No data. **Explosive Limits:**

No data. Vapor Pressure:

Vapor Density (vs. Air=1): No data. Specific Gravity (Water=1): No data.

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GHS format



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Density: ~ 0.7910 G/CM3

Solubility in Water: No data.

Saturated Vapor

No data.

Concentration:

Octanol/Water Partition

Coefficient:

No data.

Autoignition Pt:

> 350.00 C

Decomposition

No data.

Temperature:

Viscosity: No data.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid -

Incompatible materials, dust generation.

Instability:

Incompatibility - Materials To Strong oxidizing agents.

Avoid:

Hazardous Decomposition or Carbon monoxide.

Byproducts:

Possibility of Hazardous

Will occur []

Will not occur [X]

Reactions:

Conditions To Avoid -

No data available.

Hazardous Reactions:

11. Toxicological Information

Toxicological Information: Epidemiology: No information found.

Teratogenicity: No information available. Reproductive Effects: Mutagenicity:

Neurotoxicity: Other Studies:

Carcinogenicity/Other

Information:

CAS# 1521-38-6: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

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

12. Ecological Information

General Ecological Environmental: No information available.

Information: Physical: No information available.

Other: Do not empty into drains.

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified

as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local

hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.



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14. Transport Information

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

Acute Toxicity: Inhalation, Category 4 - Warning! Harmful if inhaled Acute Toxicity: Oral, Category 4 - Warning! Harmful if swallowed

Specific Target Organ Toxicity (single exposure), Category 1 - Danger! Causes damage

to organs {<target organs>}

Skin Corrosion/Irritation, Category 3 - Warning! Causes mild skin irritation

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Alcohols, n.o.s.

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1987 Packing Group: II

FL9MM9BLE LIQUID

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Alcohols, n.o.s.

UN Number: UN1987 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID TDG Classification:

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Alcohols, n.o.s.

UN Number: UN1987 Packing Group: ||

Hazard Class: 3 - FLAMMABLE LIQUID

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Alcohols, n.o.s. (Ethanol)

UN Number: UN1987 Packing Group: II

Hazard Class: 3 - FLAMMABLE LIQUID

15. Regulatory Information

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

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			
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	No	Yes NA	Yes			
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	No	No	Yes			
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	No	Yes NA	No			
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					
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	CA PROP.65: Yes: RDTox.; MA Oil/HazMat: Yes; NJ EHS: Yes - 1222; PA HSL: Yes - E					
67-63-0	Isopropyl alcohol {sec-Propyl alcohol; IPA; 2-Propanol}	CA PROP.65: No; MA Oil/HazMat: No; NJ EHS: Yes - 1076; PA HSL: Yes - E					
64-19-7	Acetic acid {Ethanoic acid, Vinegar}	CA PROP.65: No; MA Oil/HazMat: Yes; NJ EHS: No; PA HSL: Yes - E					



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16. Other Information

Revision Date: 03/07/2025 **Previous revision:** 06/20/2023

Preparer Name: A. Frontella

Additional Information About No data available.

This Product:

Document & Change Control SDS0158.E.

Number

Company Policy or Disclaimer

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our

knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any

other materials or in any process, unless specified in the text.