Material Safety Data Sheet



REAGENT ALCOHOL

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Carolina Biological Supply Company

2700 York Rd | Burlington, NC 27215 • to order: 800.334.5551 • for support: 800.227.1150



Section 1 - Product Description

Product Name: Reagent Alcohol, Anhydrous

Product Code(s): 86-1298

Size: 473 mL

Chemical Name: Alcohol CAS Number: See Section 3 Formula: See Section 3

Synonyms: Reagent Ethanol, Denatured Alcohol

Distributor: Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F) Chemtrec 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 - Hazard Identification

Emergency Overview: Toxic if swallowed.

Potential Health Effects: Eyes: May cause irritation.

Ingestion: Very Toxic: danger of very serious irreversible effects if swallowed. May severely irritate or damage

digestive tract.

Skin: Toxic: danger of very serious irreversible effects in

contact with skin. May cause irritation to skin.

Inhalation: Very Toxic: danger of very serious irreversible effects through inhalation. May severely irritate or damage

mucous membranes and respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Reagent Alcohol

TLV units: Isopropyl Alcohol ACGIH-TLV: 400 ppm (TWA)

Methyl Alcohol ACGIH-TLV: 200 ppm (TWA) Ethyl Alcohol ACGIH-TLV: 1000 ppm (TWA)

PEL units: Isopropyl Alcohol OSHA-PEL: 400 ppm (TWA)

Methyl Alcohol OSHA-PEL: 200 ppm (TWA) Ethyl Alcohol OSHA-PEL: 1000 ppm (TWA)

Section 4 - First Aid Measures

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Emergency and First Aid Procedures:

Eyes - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin - After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of ... (Water, unless specified as a water reactive material).

Ingestion - If swallowed, if conscious, give plenty of water and induce vomiting immediately as directed by medical personnel. Immediately call a physician or poison control center. Never give anything by mouth to an unconscious person.

Inhalation - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 5 - Firefighting Procedures

Flash Point (Method Used): 12.8 °C (CC) (Ethanol)

NFPA Rating: Health: 0 Fire: 0 Reactivity: 0

Extinguisher Media: Use dry chemical, CO2 or appropriate foam.

Flammable Limits in Air % by Volume: N/A N/A **Autoignition Temperature:** 365 °C (Ethanol)

Special Firefighting Procedures: Firefighters should wear full protective equipment and NIOSH approved self-contained

breathing apparatus.

Unusual Fire and Explosion Hazards: Vapours may travel back to ignition source. Closed Containers exposed to heat may

explode.

Section 6 - Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate area of spill. Eliminate all sources of ignition. Remove all non-essential personnel from area. Clean-up personnel should wear proper protective equipment and clothing. Absorb material with suitable absorbent and containerize for disposal.

Section 7 - Special Precautions

Precautions to Take in Handling or Storing: Keep in a cool, well-ventilated place away from ... (incompatible materials to be indicated by the manufacturer).

Section 8 - Protection Information

Respiratory Protection (Specify Type): None needed under normal conditions of use with adequate ventilation. A NIOSH/MSHA chemical cartridge respirator should be worn if PEL or TLV is exceeded.

Ventilation:

Local Exhaust: Yes **Mechanical(General):** Yes

Special: No **Other:** No

Protective Gloves: Natural rubber, Neoprene, PVC or equivalent. **Eye Protection:** Splash proof chemical safety goggles should be worn.

Other Protective Clothing or Equipment: Lab coat, apron, eye wash, safety shower.

Section 9 - Physical Data

Molecular Weight: 46.07 **Melting Point:** -114.1 °C

Boiling Point: 78.5 °C

Vapor Pressure: 59.3 mmHg at 25 °C

Vapor Density(Air=1): 1.59

Percent Volatile by Volume: N/A

Evaporation Rate (BuAc=1): N/A

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Solubility in Water: Soluble Appearance and Odor: Clear, colorless liquid, Alcohol odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Heat and sources of ignition.

Incompatibility (Materials to Avoid): Peroxides, Acids, Chlorites and Hypochlorites, Alkalis, Oxidizers,

Hazardous Decomposition Products: COx, **Hazardous Polymerization:** Will not occur

Section 11 - Toxicity Data

Toxicity Data: Isopropyl Alcohol: orl-rat LD50: 5000 mg/kg

Methyl Alcohol: orl-rat LD50: 5600 mg/kg

Ethyl Alcohol: orl-rat LD50: 7 gm/kg; ihl-rat LC50: 20000 ppm/10H

Effects of Overexposure: Acute: See Section 2

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA. Reproductive data cited.

Conditions Aggravated by Overexposure: Eye disorders, Skin disorders, Liver disorders, Impaired Kidney Function,

Target Organs: Eyes, Kidneys, Liver,

Primary Route(s) of Entry: Inhalation and ingestion.

Section 12 - Ecological Data

EPA Waste Numbers: D001 (Ethanol), U154 (Methanol)

Section 13 - Disposal Information

Waste Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Section 14 - Transport Information

DOT Proper Shipping Name: UN1993, Flammable Liquid N.O.S., 3, II, 20L

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Fire Chronic Acute

Name List:

Isopropyl Alcohol - Yes Methyl Alcohol - Yes Ethyl Alcohol - No Chemical Category: Isopropyl Alcohol - No Methyl Alcohol - No Ethyl Alcohol - No

CERCLA Section 103 RQ(lb.): Isopropyl Alcohol - No

Methyl Alcohol - 5000 Ethyl Alcohol - No

RCRA Section 261.33: Isopropyl Alcohol - No

Methyl Alcohol - U154 Ethyl Alcohol - No

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Section 16 - Additional Information

The information provided in this Material Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the Material Safety Data Sheet. Any employer must carefully assess the applicability of any information contained herein in regards to the particular use to which the employer puts the material.

Glossary

ACGIH American Conference of Governmental Industrial Hygienists

CAS Number Chemical Services Abstract Number

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

DOT U.S. Department of Transportation

IARC International Agency of Research on Cancer

N/A Not Available

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

ppm Parts per million

RCRA Resource Conservation and Recovery Act
SARA Superfund Amendments and Reauthorization Act

TLV Threshold Limit Value
TSCA Toxic Substances Control Act

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