### **Material Safety Data Sheet**



# Acid Alcohol, 3% in 95%

**Revised:** 05/23/2012 **Replaces:** 01/03/2012 **Printed:** 08/10/2012

# 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:** Acid Alcohol, 3% in 95%

Product Code(s): 84-1733, 15-4708A, 15-4708CA, 89-2305, C70371

Size: 120 ml, 500 ml Chemical Name: N/A CAS Number: N/A Formula: N/A

Synonyms: Hydrochloric Acid in Ethanol

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: DANGER - Highly flammable. Causes burns. Harmful by inhalation and if swallowed.

**Potential Health Effects:** 

**Eyes:** Causes severe burns and eye damage upon direct

contact. Vapor is irritating.

**Ingestion:** May severely irritate or damage digestive tract.

**Skin:** May cause severe irritation or chemical burns.

**Inhalation:** May severely irritate or damage mucous

membranes and respiratory tract.

## **Section 3 - Composition / Information on Ingredients**

Principal Hazardous Components: Hydrochloric Acid (CAS# 7647-01-0) 3%; Ethanol (CAS# 64-17-5) 92%; \*\*\*Denaturants

(trace)\*\*\* 2-Propanol Methanol

TLV units: Hydrochloric Acid - ACGIH-TLV: 5 ppm Ceiling

Ethanol - ACGIH-TLV: 1000 ppm (TWA)

PEL units: Hydrochloric Acid - OSHA-PEL: 5 ppm Ceiling

Ethanol - OSHA-PEL: 1000 ppm (TWA)

### Section 4 - First Aid Measures

#### **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. **Ingestion** - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Product Name: Acid Alcohol, 3% in 95%

Page 1 of 4

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

### **Section 5 - Firefighting Procedures**

Flash Point (Method Used): 13°C (55°F) - for 100% Ethanol, closed cup

NFPA Rating: Health: 2 Fire: 3 Reactivity: 0

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

Flammable Limits in Air % by Volume: 3.3 - 19.0% (for 100% ethanol)

**Autoignition Temperature:** 422.78 °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 away from sources of ignition - No smoking.

Avoid contact with skin and eyes.

Avoid creating and inhaling spray or mist. This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Keep container tightly closed in a cool, well-ventilated place.

Keep locked up and out of the reach of children.

#### **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:** N/A **Melting Point:** N/A

**Boiling Point:** approx. 79 °C (174°F) **Vapor Pressure:** 50 @ 20°C (68°F) **Vapor Density(Air=1):** Greater than 1 **Specific Gravity (H2O=1):** 0.8 **Evaporation Rate (BuAc=1):** > 1

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.

Product Name: Acid Alcohol, 3% in 95% Page 2 of 4

Incompatibility (Materials to Avoid): Oxidizers, Acids, Halogens, Metals, Alkalis,

Hazardous Decomposition Products: COx, HCl,

Hazardous Polymerization: Will not occur

### **Section 11 - Toxicity Data**

**Toxicity Data:** ORL LD50 - Rabbit: 900 mg/kg (Hydrochloric Acid)

INH LC50 - Rat: 3124 ppm/1h (Hydrochloric Acid) DER LD50 - Mouse: 1449 mg/kg (Hydrochloric Acid)

ORL LD50 - Rat: 7060 mg/kg (Ethanol) INH LC50 - Rat: 20,000 ppm/10h (Ethanol)

**Effects of Overexposure: Acute:** See Section 2

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

Conditions Aggravated by Overexposure: Skin disorders, Eye disorders, Liver disorders,

Target Organs: Liver, Skin,

**Primary Route(s) of Entry:** Inhalation, ingestion, eye or skin contact.

### **Section 12 - Ecological Data**

**EPA Waste Numbers:** D001 (Ignitability), D002 (Corrosivity)

### **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:** UN2924

FLAMMABLE LIQUID, CORROSIVE, N.O.S. (Ethanol, Hydrochloric Acid)

Class 3 (8) P.G. II

## **Section 15 - Regulatory Information**

EPA TSCA Status: On TSCA Inventory

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

**Name List: Chemical Category:** Hydrochloric Acid - Yes Hydrochloric Acid - No

Ethanol - No Ethanol - No

CERCLA Section 103 RQ(lb.): Hydrochloric Acid - 5,000 lbs (2270 kg)

Ethanol - No

RCRA Section 261.33: Hydrochloric Acid - No

Ethanol - No

### **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.

> Product Name: Acid Alcohol, 3% in 95% Page 3 of 4

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

Product Name: Acid Alcohol, 3% in 95%

Page 4 of 4