Material Safety Data Sheet



Acetic Anhydride

Revised: 11/18/2011 **Replaces:** 11/17/2011 **Printed:** 08/10/2012

Carolina Biological Supply Company

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



Section 1 - Product Description

Product Name: Acetic Anhydride

Product Code(s): 84-1390, 84-1392, 84-1394, 84-0550, C71204

Size: 100 ml, 500 ml, 1 gal

Chemical Name: Acetic Anhydride

CAS Number: 108-24-7 Formula: CH3CO*O*COCH3 Synonyms: Ethanoic Anhydride

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: Harmful if inhaled or swallowed.

Potential Health Effects:

Eves: May cause irritation

Eyes: May cause irritation. **Skin:** May cause irritation to skin.

Ingestion: May cause gastrointestinal discomfort. **Inhalation:** May cause irritation to respiratory tract.

Section 3 - Composition / Information on Ingredients

Principal Hazardous Components: Acetic Anhydride

TLV units: ACGIH-TLV 5ppm TWA **PEL units:** OSHA-PEL 5ppm 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, wash immediately with plenty of water.

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

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

Section 5 - Firefighting Procedures

Flash Point (Method Used): 49 °C (CC)

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NFPA Rating: Health: 3 Fire: 2 Reactivity: 1

Extinguisher Media: Use dry chemical, CO2 or appropriate foam. **Flammable Limits in Air % by Volume:** LEL 2.9% UEL 10.3%

Autoignition Temperature: 316 C

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: Avoid excess heat.

Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.

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

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: 102.09Melting Point: -74.1 °CBoiling Point: 139.5 °CVapor Pressure: 4 hPa at 20 °CVapor Density(Air=1): 3.5Specific Gravity (H2O=1): 1.082Percent Volatile by Volume: N/AEvaporation Rate (BuAc=1): 0.46

Solubility in Water: Soluble **Appearance and Odor:** Clear, colorless liquid with pungent odor.

Section 10 - Reactivity Data

Stability: Stable

Conditions to Avoid: Water; Product is water reactive.

Heat and sources of ignition.

Incompatibility (Materials to Avoid): Water, Bases, Oxidizers, Amines, Alcohols,

Hazardous Decomposition Products: COx, Organic Acids,

Hazardous Polymerization: Will not occur

Section 11 - Toxicity Data

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Toxicity Data: Oral Rat LD50: 630 mg/kg

Inhalation Rat LC50: 1000ppm/4H Dermal Rabbit LD50: 4000 mg/kg

Effects of Overexposure:
Acute: See Section 2
Chronic: None Known

Conditions Aggravated by Overexposure: Respiratory disorders,

Target Organs: No information available

Primary Route(s) of Entry: No information available

Section 12 - Ecological Data

EPA Waste Numbers: D002, D001

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: Acetic Anhydride, 8, UN1715, II

Section 15 - Regulatory Information

EPA TSCA Status: On TSCA Inventory

Hazard Category for SARA Section 311/312 Reporting: Acute

Name List: Chemical Category:

No No

CERCLA Section 103 RQ(lb.): 5000

RCRA Section 261.33: 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.

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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