



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

CAPPING A SOLUTION-ACETIC ANHYDRIDE 99.5%

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY INFORMATION

American International Chemical, Inc. 135 Newbury Street Framingham, MA 01701	Emergency Number: Chemtrec Information Number:	800-424-9300 703-527-3887 800-238-0001
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Date: August 2007

Synonyms: None

CAS #: 108-24-7

DOT Hazard Class: Corrosive, Flammable Liquid.  
Hazard class 8, UN1715, PG II

### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Acetic Anhydride      108-24-7      99.5% min.

### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear liquid.

Extremely flammable liquid and vapor.

Vapor may cause flash fire.

Tends to form explosive peroxides especially when anhydrous.

Causes severe eye and skin burns.

Harmful if inhaled or swallowed.

May cause damage to respiratory system, skin, and eyes.

POTENTIAL HEALTH EFFECTS:

**Skin:** Causes burning on contact.

**Eyes:** May cause irritation or burning.

**Inhalation:** May cause irritation to the respiratory tract.

**Ingestion:** May cause irritation or burning.

CARCINOGENICITY: Not listed as a cancer causing agent (OSHA, IARC or NTP)

#### **SECTION 4 - FIRST AID MEASURES**

**Skin:** Immediately wash skin with soap and water for at least 15 minutes.

**Eyes:** Immediately flush with plenty of water for at least 15 minutes, holding eyelids apart.

**Inhalation:** Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give water and get medical attention.

**On All Of The Above:** Consult a physician if symptoms persist.

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#### **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Closed cup: 48.9° C

Flammable Limits: Lower: 2.9% Upper: 10.3%

Extinguishing Media: Use carbon dioxide or dry chemical. Use water to cool fire-exposed containers and disperse vapors.

Special Fire Fighting Procedures:

All firefighters should use self-contained breathing apparatus and full fire-fighting turnout gear.

Unusual Fire Explosion Hazard: Dangerous fire and explosive hazard. Vapor can travel distances to ignition source and flash back. Risk of explosion in the presence of static discharge.

Auto Ignition Temperature: 314.9° C

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#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Isolate hazard area and deny entry to unnecessary or unprotected personnel.

Wear suitable protective equipment listed under Exposure Controls, Personal Protection below.

Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.

Contain spilled liquid with sand or earth. Place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.

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#### **SECTION 7 - HANDLING AND STORAGE**

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Use normal personal hygiene and housekeeping. Keep container closed. Store in cool dry area away from ignition sources and oxidizers.

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#### **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Use in an approved fume hood or with adequate ventilation.

SKIN AND EYE PROTECTION: Use PVA or equivalent gloves, chemical goggles and clothing sufficient to protect skin.

WORK, HYGIENIC PRACTICES:

Safety showers and/or eyewash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS:

OSHA

CEIL: 20mg/m<sup>3</sup>

CEIL: 5ppm

ACGIH:

TWA: 21 mg/m<sup>3</sup>

TWA: 5ppm

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 140.05° C

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): 3.5

Specific Gravity (H<sub>2</sub>O=1): 1.08

Percent Volatile by Volume (%): Not Available

Melting Point: -72.72° C

Evaporation Rate (Butyl Acetate=1): Not Available

Solubility in Water: Partially soluble

pH: Not Available

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**SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Available

KEEP AWAY FROM: Heat, contact with ignition sources, evaporation to dryness or near dryness. Strong oxidizers, sodium aluminum hydride, excel of strong caustic, lithium aluminum hydride

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Not Available

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**SECTION 12 - ECOLOGICAL INFORMATION**

CAPPING A SOLUTION-ACETIC ANHYDRIDE 99.5%

Not Available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

EPA Waste Numbers: D001, D002

Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: Acetic Anhydride

TECHNICAL SHIPPING NAME: SAME

U.N./NUMBER: UN1715

D.O.T. HAZARD CLASS AND GROUP NUMBER: 8, II

D.O.T. PLACARD: Corrosive, Flammable liquid

PRODUCT LABEL: Capping A Reagent, Acetic Anhydride 99.5%

OTHER INFORMATION: None.

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Listed

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ)

Acetic Anhydride – 5000 lbs

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: **Acetic Anhydride**: Fire Hazard, Immediate (Acute) Health Hazard.

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**SECTION 16 - OTHER INFORMATION**

Reason for issue: Changed Date

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