



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

PYRUVIC ACID

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: Acetylformic Acid, Alpha-Ketopropionic Acid, 2-Oxopropanoic Acid, Pyroracemic Acid

CAS #: 127-17-3

DOT Hazard Class: Corrosive Liquid, Acidic, Organic, N.O.S.
(Pyruvic Acid)
UN 3265, Class 8, PG III, Corrosive

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Pyruvic Acid - 97%+

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Slightly yellow liquid that has an acetic acid odor. Can cause severe burns and irritation to the skin. It is a corrosive flammable liquid.

POTENTIAL HEALTH EFFECTS:

Skin: Can cause severe burns to skin.

Eyes: Can cause severe irritation to eyes.

Inhalation: Can cause severe irritation to the respiratory tract.

Chronic Effects: Repeated or prolonged contact with spray mist may produce chronic eye irritation, severe skin irritation and respiratory tract irritation.

CARCINOGENICITY: Not Available

SECTION 4 - FIRST AID MEASURES

Skin: Remove the contaminated clothes. Place the victim under a deluge shower. If the chemical touches the victim's exposed skin, such as the hands: Neutralize exposed skin with a dilute solution of sodium carbonate. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap.

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

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

Ingestion: DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. Seek immediate medical attention.

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

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 102 °C (COC)

Flammable Limits: Not Available

Extinguishing Media: Small fire: Dry chemicals, CO₂, water spray or foam.
Large Fire: Use water spray or foam. DO NOT use water jet.

Special Fire Fighting Procedures:

Use fire fighting procedure that is appropriate to treat surrounding fire. All firefighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

Unusual Fire Explosion Hazard: During a fire, irritating and highly toxic gasses may be generated by thermal decomposition or combustion.

Auto Ignition Temperature: 281°C

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Small Spill: Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill: Combustible material. Corrosive liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all sources of ignition. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.

SECTION 7 - HANDLING AND STORAGE

Corrosive materials should be stored in a separate safety storage cabinet or room.

Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas, fumes, vapor or spray. Never add water to this product. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust from the work area and maintain concentrations below the limit.

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin and eyes from dust.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from dust, safety showers and/or eye wash should be available. Do not leave food or smoke in work area. Wash thoroughly and remove or clean any contaminated clothing.

EXPOSURE LIMITS: Not Available

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 165° C (329° F)

Vapor Pressure (MM Hg): Not Available

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): 1.269

Percent Volatile by Volume (%): Not Available

Melting Point: 11.8° C

Evaporation Rate (Butyl Acetate=1): 0.089

Solubility in Water: Soluble

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide.

KEEP AWAY FROM: Bases, oxidizing agents, reducing agents, air and light sensitive.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity LD50 2.1 g/kg bw, (rat, oral)

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

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

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Corrosive Liquid, Acidic, Organic N.O.S.
TECHNICAL SHIPPING NAME: (Pyruvic Acid)
Corrosive Liquid, Acidic, Organic, N.O.S.
UN 3265, Class 8, PG III, Corrosive

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Hazardous by definition.

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ) None

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance Not listed

Section 313 Toxic Chemicals: Not listed

Section 311/312 Hazard Category: Fire hazard, Immediate (Acute) Delayed (Chronic).

SECTION 16 - OTHER INFORMATION

NFPA Rating: Health- 3
Fire- 2
Reactivity- 0
Specific- Corrosive

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Reason for Issue: Changed Date

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