



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### GLYCOLIC ACID 70 WT % IN WATER

#### 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: Glycolic Acid 70% Solution; Hydroxyacetic Acid 70% Solution

CAS #: Mixture

DOT Hazard Class: 8 Corrosive Liquid, Acidic, organic, n.o.s.  
PG: II

#### SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Name	CAS#	% by Weight
Glycolic acid	79-14-1	70
Water	7732-18-5	30

#### SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A Corrosive. Causes Burns. Classified Development Toxin (possible).  
Toxic to lungs.

POTENTIAL HEALTH EFFECTS:

**Skin:** Corrosive. Causes Burns. Harmful if absorbed through the skin. Destructive to mucous membranes.

**Eyes:** Destructive to the eyes.

**Inhalation:** Harmful if inhaled.

**Ingestion:** Harmful if swallowed.

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#### **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 eye lids 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.

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

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

Flash Point: Not Applicable

Flammable Limits: Non Combustible

Extinguishing Media: Use media that is appropriate to treat surrounding fire.

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: Not Applicable

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

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

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. Avoid breathing vapors. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking.

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

**RESPIRATORY PROTECTION:** Use NIOSH/MSHA approved respirators.

**VENTILATION REQUIREMENTS:** Ventilate as necessary to eliminate vapors 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 HAZARD:** Corrosive Liquid, Acidic, organic, n.o.s.

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## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: 112 °C

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H<sub>2</sub>O=1): 1.27

Percent Volatile by Volume (%): Not Applicable

Melting Point: 10 °C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Infinitely miscible.

pH: 1% solution in water: 2.33

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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: Carbon Monoxide and Carbon Dioxide.

KEEP AWAY FROM: Strong oxidizing agents.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Toxicological Data on Ingredients: Glycolic acid: Oral (LD50): Acute: 1950 mg/kg (rat). 1920 mg/kg (guinea pig). Vapor (LC50) Acute: 7.1 mg/m 4 hours (rat).

**Routes of Entry:** Absorbed through skin. Eye contact. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 2743 mg/kg (Guinea pig)  
(Calculated value for the mixture).

**Chronic Effects on Humans:** DEVELOPMENTAL TOXICITY: Classified Development toxin  
[POSSIBLE] [Glycolic acid, 70%].

**Other Toxic Effects on Humans:** Very hazardous in case of skin contact (irritant), of ingestion.  
Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive).

**Special Remarks on Toxicity to Animals:** Not Available.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION CONTINUED:**

GLYCOLIC ACID 70 WT % IN WATER

**Special Remarks on Chronic Effects on Humans:**

May cause adverse reproductive effects (fetotoxicity and developmental abnormalities) according to animal studies. No human studies information for humans was found.

**Special Remarks on other Toxic Effects on Humans:**

Acute Potential Health Effects:

Skin: Causes severe skin irritation and skin burns. May be harmful if absorbed through skin.

Eyes: Causes severe eye irritation and eye burns.

Inhalation: May be harmful if inhaled. Causes severe irritation of the respiratory tract and mucous membranes. May cause chemical burns to the respiratory tract. May affect respiration (dyspnea), sense organs, and p. 4 metabolism (weight loss, metabolic acidosis).

Ingestion: May be harmful if swallowed. Causes irritation of the digestive tract. May cause digestive (gastrointestinal) tract burns. May affect behavior (somnia or general depressed activity), urinary system (kidneys - oxalate crystals present in renal tubules), metabolism (weight loss, metabolic acidosis), and blood.

Chronic Potential Health Effects: No information found.

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**SECTION 12 - ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not Available.

**BOD5 and COD:** Not Available.

**Products of Biodegradation:**

Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are less toxic than the product itself.

**Special Remarks on the Products of Biodegradation:** Not Available.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

RCRA WASTE #: Not Listed

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**SECTION 14 - TRANSPORTATION INFORMATION**

GLYCOLIC ACID 70 WT % IN WATER

D.O.T. SHIPPING NAME:.....Corrosive Liquid, Acidic, organic, n.o.s. (Glycolic Acid)

U.N./NUMBER.....3265

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

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**SECTION 15 - REGULATORY INFORMATION**

OSHA STATUS: Not listed

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: Acute Health Hazard

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**SECTION 16 - OTHER INFORMATION**

Reason for Issue: Changed Date

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