



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### PHENOL

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#### 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: Carboic Acid, Hydroxybenzene

CAS #: 108-95-2

DOT Hazard Class: UN 1671, Class 6.1, PG II, Toxic

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

Phenol 99.5% min.

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#### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** White crystalline powder or granules with a sweet odor. It is a corrosive and poison. Can cause sever burns. It is rapidly absorbed through the skin. May be fatal if swallowed, inhaled or absorbed through the skin. Keep away from heat, flame and sparks.

**POTENTIAL HEALTH EFFECTS:**

**Eyes:** Can cause severe irritation and burns, permanent corneal damage and blindness.

**Skin:** May cause severe irritating burns. Penetrates skin rapidly particularly when liquified causing severe injury which can be fatal.

**Inhalation:** Severe irritation or burns of respiratory system, may be fatal.

**Ingestion:** Severe gastrointestinal irritation.

**CARCINOGENICITY:** Target Organs: Liver, Kidneys and Skin.

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

**Eyes:** Remove contact lenses at once. Immediately flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. Seek medical attention.

**Skin:** Immediately flush area with large amounts of water for at least 15 minutes. Don't wait to remove contaminated clothing, do it under the water stream. Start sponging affected skin areas with polyethylene glycol. The only neutralizing agent for the skin. It is very important to avoid rubbing or wiping affected parts which would aggravate irritation and cause product dispersion. Continue treatment until the burned area usually changes color from white to pink. Expect that this can take a long period of time (20 minutes or more). Transport the injured person to the hospital. If polyethylene glycol is not available, flush with water for at least 30 minutes prior to going to the hospital.

**Ingestion:** Immediately contact poison control center, hospital, or physician. If unconscious, insure that the airway is not obstructed. Begin CPR if not breathing. If conscious, give victim one glass of water. Do not induce vomiting unless instructed to do so. Do not give anything by mouth to a person who is unconscious or is having convulsions.

**Inhalation:** If inhaled, move victim to the fresh air and seek medical attention. If not breathing, start CPR and immediately seek medical attention.

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

Flash Point: 79°C or 175°F

Flammable Limits: Upper 8.6%          Lower 1.5%

Extinguishing Media: Use water spray, alcohol foam, dry chemical or carbon dioxide.

Special Fire Fighting Procedures: Full protective clothing including self-contained breathing apparatus, pants, gloves, boots and bands around legs, arms and waist should be provided. No skin surface should be exposed. Use water spray to keep fire-exposed containers cool. Caution! Water containing Phenol can also cause chemical burns to personnel.

Unusual Fire Explosion Hazard: Yields flammable vapors when heated, which can form explosive mixtures with air. Exposed to extreme heat, containers may explode.

Auto Ignition Temperature: 715°C

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

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all heat & ignition sources.

Contain spill, sweep up, collect and place in a disposal container. Avoid runoff into storm sewers and ditches which lead to waterways.



CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide

KEEP AWAY FROM: Strong oxidizers, strong bases, alkalis, calcium hypochlorite, aldehydes, aluminum chloride and nitrobenzene.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Oral Human  $LDL_0 = 140$  mg/kg

Oral Rat  $LD_{50} = 317$  mg/kg

Skin Rat  $LD_{50} = 669$  mg/kg

Skin Rabbit  $LD_{50} = 850$  mg/kg

Intraperitoneal Rat  $LD_{50} = 127$  mg/kg

Inhalation Rat  $LD_{50} = 316$  mg/m<sup>3</sup>

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**SECTION 12 - ECOLOGICAL INFORMATION**

Not Available

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

RCRA WASTE #: U188

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: Phenol, Solid

UN 1671, Class 6.1, PG II, Toxic

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**SECTION 15 - REGULATORY INFORMATION**

TSCA (TOXIC SUBSTANCE CONTROL ACT):

This product is listed on the TSCA Inventory.

SARA TITLE III INFORMATION:

Section 302 Extremely Hazardous Substance: Listed

Section 313 Toxic Chemicals: Listed

Section 311/312 Hazard Category: Fire Hazard, Immediate (acute) Health Hazard, Delayed (chronic).

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**SECTION 16 - OTHER INFORMATION**

