



# American International Chemical, Inc.

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## MATERIAL SAFETY DATA SHEET

### ACRYLAMIDE

#### 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: 2-Propenamide, Ethylenecarboxamide, Acrylic Amide, Vinyl amide

CAS #: 79-06-1

DOT Hazard Class: Acrylamide, Solid  
UN 2074  
Hazard Class 6.1  
PG III  
Toxic

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

Acrylamide 99.5% PEL-TLV-TWA 0.03 mg/m<sup>3</sup> Suspected Carcinogen

#### SECTION 3 - HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** White crystalline solid, odorless. Is an acute and chronic health hazard. Listed as a carcinogen under OSHA, ACGIH and NTP. May cause nervous system damage. Avoid temperatures above 90 °F for all solutions.

**POTENTIAL HEALTH EFFECTS:**

**Eyes:** May produce conjunctival irritation and may lead to systemic toxicity.

**Skin:** Readily absorbed through the skin. May cause peeling and redness.

**Inhalation:** Readily absorbed through the respiratory tract. May cause emphysema, asthma and nervous system damage.

**Ingestion:** May cause nervous system effects.

**CARCINOGENICITY:** Listed under OSHA, ACGIH and NTP.

#### SECTION 4 - FIRST AID MEASURES

**Skin:** Remove contaminated clothing and shoes immediately, Cleanse skin thoroughly with soap and water.

**Eyes:** Wash with plenty of water for at least 15 minutes.

**Inhalation:** Remove immediately to the fresh air. If breathing is difficult give oxygen.

**Ingestion:** Rinse mouth thoroughly with water. Do not induce vomiting. Drink 8-10 oz. of water. Call a physician.

**In all of the above:** Consult a physician immediately.

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

Flash Point: 280 °F (138 °C)

Flammable Limits: Not Available

Extinguishing Media: Use water, carbon dioxide or dry chemical to extinguish fires.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full-face protective clothing.

Unusual Fire Explosion Hazard: Avoid dusting - May cause an explosion.

Auto Ignition Temperature: Not Available

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

Isolate hazard area and deny entry to unnecessary or unprotected personnel. **Refer to Section 8.**

Contain spill, sweep up, collect and 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. Avoid breathing dust. Use normal personal hygiene and housekeeping. Store in cool dry area away from other incompatible materials. Product is hygroscopic and should be stored in a dry area to prevent moisture pick up, caking and sublimation.

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

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate to eliminate dust from the work area. Use a closed system where feasible.

SKIN AND EYE PROTECTION:

Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust. Wear splash proof goggles where solution is used.

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. Wash face and hands with soap and water after use. Shower, if necessary. Wash all clothing after use.

EXPOSURE LIMITS: PEL-TLV-TWA 0.03 mg/m<sup>3</sup>

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

Boiling Point: 125 °C

Vapor Pressure (MM Hg): 0.007 @ 25 °C

Vapor Density (AIR=1): 2.4

Specific Gravity (H<sub>2</sub>O=1): 1.122 @ 86 °F

Bulk Density: Not Available

## **SECTION 9: Continued:**

Percent Volatile by Volume (%): Negligible

Melting Point: 84.5 °C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Complete

pH: Not Available

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## **SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Solid material: Stable under normal temperatures and pressures.  
Solution in water must be stabilized.

**HAZARDOUS POLYMERIZATION:** Aqueous solutions can polymerize. Avoid temperatures above 90°F (32°C) and initiators such as bisulfites, peroxides and other reducing and oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May produce carbon monoxide, carbon dioxide, ammonia and oxides of nitrogen.

**KEEP AWAY FROM:** Reducing and oxidizing agents.

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## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Toxicity Data:

Acute oral toxicity (LD50): 100 mg/kg [Mammal].

Acute dermal toxicity (LD50): 400 mg/kg [Rat].

**CARCINOGENIC EFFECTS:** Classified A3 (Proven for animal.) by ACGIH. Classified 2A (Probable for human.) by IARC.

**DEVELOPMENTAL TOXICITY:** Classified Reproductive system/toxin/female, Reproductive system/toxin/male [PROVEN].

Irritation Data:

Draize Test (Rabbit):

Skin: 500mg/24h. Reaction: Mild.

Draize Test (Rabbit) Eye: 100-mg/24h moderate

**RTECS Number:** AS3325000

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## **SECTION 12 - ECOLOGICAL INFORMATION**

Not available

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Incinerate all packaging. Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: U007

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**SECTION 14 - TRANSPORTATION INFORMATION**

D.O.T. SHIPPING NAME: Acrylamide, Solid  
UN 2074  
Hazard Class 6.1  
PG III  
Toxic  
PRODUCT LABEL: Poison

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**SECTION 15 - REGULATORY INFORMATION**

SARA TITLE III INFORMATION:

Section 302 Extremely hazardous Substance: Listed

Section 313 Toxic Chemicals: Listed

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

TSCA STATUS: Listed

CERCLA REPORTABLE REQUIREMENTS: (RQ): 5,000 lbs

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**SECTION 16 - OTHER INFORMATION**

**NFPA Rating** Fire (2)  
Health (2)  
Reactivity (2)

Reason for Change: Changed Date

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