



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

FORMAMIDE OPTIMUM

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: Methanamide, Carbamaldehyde

CAS#: 75-12-7

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

Formamide 99.5% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A colorless liquid that may cause irritation with contact or ingestion. May be harmful if swallowed, inhaled or absorbed through the skin.

POTENTIAL HEALTH EFFECTS:

Skin: Causes skin irritation.

Eyes: Causes irritation, redness, and pain.

Inhalation: Causes irritation to the respiratory tract.

Ingestion: Causes irritation to the gastrointestinal tract.

CARCINOGENICITY: Not Identifiable

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: Give large amounts of water.

On All Of The Above: Seek medical attention immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: 154 °C

Flammable Limits: Not Available

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

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 turnout gear. Fires involving formamide are likely to produce very toxic gases such as carbon monoxide and ammonia, which should not be inhaled.

Unusual Fire Explosion Hazard: Above the flash point, explosive vapor-air mixtures may be formed.

Auto Ignition Temperature: 500 °C

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 that lead to waterways. Do not use combustible materials such as saw dust.

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.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate vapor 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 contact.

WORK, HYGIENIC PRACTICES:

As required to protect skin and eyes from contact, 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:

ACGIH Threshold Limit Value (TLV): 10 ppm (TWA) Skin

NIOSH (REL): 10 ppm (TWA) Skin

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 210 °C

Vapor Pressure (MM Hg): 1 @ 70.5 °C

Vapor Density (AIR=1): 1.55

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): 100%

Melting Point: 2-3 °C

Evaporation Rate (Butyl Acetate=1): Less than 1

Solubility in Water: Soluble

pH: 7.1

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Burning may produce ammonia, carbon monoxide, carbon dioxide, and nitrogen oxides. At boiling point, may produce ammonia, carbon monoxide, and hydrogen cyanide.

KEEP AWAY FROM: Acids, alkalines, iodine, pyridine, and sulfur trioxide. Copper, brass, lead and rubber are attacked by formamide.

SECTION 11 - TOXICOLOGICAL INFORMATION

Oral rat LD50: 5570 mg/kg

Investigated as a tumorigen, mutagen, and reproductive inhibitor.

Reproductive toxicity:

Has shown teratogenic effects in laboratory animals.

SECTION 12 - ECOLOGICAL INFORMATION

When released in the soil, this material may biodegrade to a moderate extent and is expected to leach into groundwater. It has an estimated bioconcentration factor of less than 100. It is not expected to significantly bioaccumulate. When release into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals and is expected to have a half-life of less than 1 day.

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: Formamide Optimum

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: Immediate

Chronic Health Hazard: Delayed

SECTION 16 - OTHER INFORMATION

NFPA Ratings: Health: 2 Flammability: 1 Reactivity: 0

Reason for Issue: Changed Date

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