



American International Chemical, Inc.

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MATERIAL SAFETY DATA SHEET

4,5-Dicyanoimidazole

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: DCI, 4,5-imidazoledicarbonitrile

CAS #: 1122-28-7

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

4,5-Dicyanoimidazole 99% min.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A white to off white powder, with no discernible odor. Harmful by inhalation, in contact with skin and if swallowed. Irritating to the eyes, respiratory system and skin. Flammability risk has not been assessed. Emits toxic fumes under fire conditions.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation to the respiratory tract.

Ingestion: May cause irritation if ingested. Toxicity data has not been determined.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Remove any contaminated clothing and 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.

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Ingestion: Wash out mouth with water.

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

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: Has not been accessed.

Flammable Limits: Has not been accessed.

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: Emits toxic fumes under fire conditions.

Auto Ignition Temperature: Has not been accessed.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Isolate hazard area and deny entry to unnecessary or unprotected personnel. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Contain spill, sweep up, collect and place in a disposal container. Wash spill site after material pickup is complete. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

Avoid contact with skin, eyes and clothing. Use with adequate ventilation. Avoid breathing dust. 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: Use in laboratory hood or other ventilated device

SKIN AND EYE PROTECTION: Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin 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: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Not Applicable

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: 170-178°C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: Not soluble

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide and nitrogen oxides.

KEEP AWAY FROM: Oxidizing agents

SECTION 11 - TOXICOLOGICAL INFORMATION

Not Available

SECTION 12 - ECOLOGICAL INFORMATION

Not Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Dissolve the material with a combustible solvent and burn in a chemical incinerator. Dispose of in accordance with all federal, state and local regulations.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: 4,5-Dicyanoimidazole

SECTION 15 - REGULATORY INFORMATION

OSHA STATUS: Not listed

TSCA STATUS: Not 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: Immediate (Acute) and Delayed (Chronic) Health Hazard.

SECTION 16 - OTHER INFORMATION

Reason for issue: Changed Date

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