



American International Chemical, Inc.

Corporate Offices: (800) 238-0001

Internet: www.aicma.com Email: info@aicma.com

MATERIAL SAFETY DATA SHEET

ENSULIZOLE

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: July 2011

Synonyms: 2 -Phenyl-1 -H-benzimidazole-5 -sulphonic acid, Phenylbenzimidazole Sulfonic Acid, Chemsol HS

CAS #: 27503-81-7

DOT Hazard Class: Not Regulated

SECTION 2 - COMPOSITION AND INFORMATION ON INGREDIENTS

2-Phenyl-1H-Benzimidazole-5-sulphonic acid – 100%

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Practically odorless white to off-white powder that presents little or no health hazard and no unusual hazard if involved in a fire.

POTENTIAL HEALTH EFFECTS:

Skin: May cause skin irritation.

Eyes: May cause irritation or burning.

Inhalation: May cause irritation of respiratory tract.

Ingestion: May cause irritation of digestive (gastrointestinal) tract.

CARCINOGENICITY: Not Identifiable

SECTION 4 - FIRST AID MEASURES

Skin: Wash with soap and water. Remove contaminated clothes. Do not use any solvent.

Eyes: Immediately flush with plenty of water for at least 15 minutes, holding eye lids apart.

Inhalation: If exposed to excessive levels of dust or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glass of water or milk.

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

SECTION 5 - FIRE FIGHTING MEASURES

Flash Point: May be combustible at high temperatures.

Flammable Limits: May be combustible at high temperatures.

Extinguishing Media: Water spray jet, dry powder, foam, 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 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

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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

Contain spill, sweep up, collect and place in a disposal container. 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. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Take precautionary measures against electrostatic charging. Protect from light.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

RESPIRATORY PROTECTION: Use NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS: Ventilate as necessary to eliminate dust 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 LIMITS: None Established

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable

Vapor Pressure (MM Hg): Not Applicable

Vapor Density (AIR=1): Approx. 0.244 gm/cm³

Specific Gravity (H₂O=1): Not Available

Percent Volatile by Volume (%): Not Applicable

Melting Point: > 360 °C

Evaporation Rate (Butyl Acetate=1): Not Applicable

Solubility in Water: 300 mg/l, water (25 °C)

As a free acid, practically insoluble in water

pH: Not Applicable

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperatures and pressures.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: Sulphuric acid.

KEEP AWAY FROM: Light and Heat.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ >5'000 mg/Kg (Oral rat)

LD₅₀ >6'600 mg/Kg (Oral, mouse) as Na-salt

Dermal LD 50 RABBIT: LD₅₀ >3'000 mg/Kg (Dermal rat)

Local effects: Eye: non-irritant (rabbit), 10% solution (Sodium salt)

Skin: non-irritant (rabbit), 10% solution (Sodium salt)

Not phototoxic (guinea pig) 5% solution

Sensitization: Non-sensitizing (man); 10 % solution (Sodium salt)

Not photo allergic (guinea pig), 5 % Solution

Sub Chronic toxicity: NOEL 1000 mg/kg/d (oral, rat; 56 d)

Mutagenicity: Not mutagenic (various in vivo and in vitro test systems).

SECTION 12 - ECOLOGICAL INFORMATION

Inherent biodegradability: Not inherently biodegradable.

Ecotoxicity: Barely toxic or fish (Unspecified)
LC₅₀>100 mg/l
(OECD No. 203)
Barely toxic for plankton or crustaceans
(nominal concentration > 100 mg/l) (Daphniamagna)
EC₅₀>10000 mg/l
(OECD No. 202)
Barely toxic for fish (nominal) concentration/100mg/l) (zebra fish)
LC₅₀>10000 mg/l
Barely toxic for microorganisms (nominal concentration > 100 mg/l) activated sludge
EC₅₀ >10000 mg/l

Air Pollution: Observe local/national regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations. Incinerate in qualified installation with flue gas scrubbing.

RCRA WASTE #: Not Listed

SECTION 14 - TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Phenylbenzimidazole Sulfonic Acid

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: Not considered a hazard.

SECTION 16 - OTHER INFORMATION

Reason for Issue: New Product

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