

MATERIAL SAFETY DATA SHEET

ANATRACE, INC.
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Chemical Emergency (24-hr):
- Within U.S. & Canada (800-424-9300)
- International (703-527-3887)

Effective Date: 02./01/2006 Revised:

NAME: NEM (N-Ethylmaleimide) **CAT. NO:** E2000

MF: C₆H₇NO₂ / **FW:** 125.13 **CAS NO:** 128-53-0

CHIP R & S Phrases:

R:28 Very toxic if swallowed.

R:21 Harmful in contact with skin.

R:34 Causes burns.

R:43 May cause sensitization by skin contact.

S:26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S:28 After contact with skin, wash immediately with plenty of water.

S:36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S:45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

HAZARDS IDENTIFICATION:

CHIP: Very Toxic, Corrosive, Possible Sensitizer

HCS: Highly Toxic, Corrosive

FIRST-AID MEASURES EYES: Flush with water for 15 minutes. Seek medical advice if irritation persists.

SKIN: Flush with water, then wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if irritation persists.

INHALATION: Remove the victim from exposure and move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Keep victim quiet and warm. Seek immediate medical attention.

INGESTION: Drink water and seek immediate medical attention. Avoid alcoholic beverages.

Never give anything by mouth to an unconscious person.

FIRE-FIGHTING INFORMATION Use media suitable to extinguish the supporting or surrounding fire. Wear NIOSH (or equivalent) approved self contained breathing apparatus. For small fires only: use carbon dioxide, dry powder or foam. Emits toxic fumes under fire conditions. NFPA Rating: H=3 F=0 R=0. \ Flash Point = 73°C (164°F)

ACCIDENTAL RELEASE MEASURES Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Collect in a manner that does not create dust and place in a suitable waste container. Avoid contact of material with skin or eyes. Use adequate ventilation.

HANDLING AND STORAGE Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. Avoid contact of material with skin or eyes. Use adequate ventilation. Store at +4°C away from incompatible substances. Caution: Material is light sensitive. Keep container tightly closed. Protect from light and air.

PERSONAL PROTECTION Wear appropriate personal protective equipment and clothing including lab coat, safety goggles, gloves and NIOSH-approved respirator. A qualified industrial hygienist should evaluate the need for respiratory protection. Use respiratory protection approved by NIOSH (or equivalent) and appropriate to the hazard. Avoid contact of material with skin or eyes. Mechanical ventilation or local exhaust as needed to control exposure to dust, vapors or mists. Use only in a chemical fume hood. Access to a safety shower and eye-wash.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline powder Boiling Point: 209-211°C

Vapor Pressure: No data available Vapor Density: 4.3

Solubility (Water): Soluble Specific Gravity: No data available

Percent Volatile: No data available Evaporation Rate: No data available

Chemical formula: C₆H₇N-O₂ Melting Point: 43-46°C

STABILITY AND REACTIVITY Product is stable under normal conditions. May discolor upon exposure to light. Avoid air and direct light. Hazardous decomposition products may include carbon and nitrogen oxides and Hydrogen cyanide. Incompatible with strong oxidizing agents, strong acids and strong bases. Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION EFFECTS OF OVEREXPOSURE:

EYES: Strongly irritating and/or corrosive to the eyes and mucous membranes. Lachrymator.

Risk of serious corneal damage.

SKIN: May be toxic or harmful by skin absorption. Causes blisters on contact with skin. Severe skin irritant: may cause burns. Possible skin sensitizer: may cause contact dermatitis in susceptible individuals.

INHALATION: Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

INGESTION: May be fatal if swallowed. May cause irritation or burns of mouth, throat, esophagus and gastrointestinal tract with vomiting and diarrhea.

ADDITIONAL INFORMATION:

Harmful if ingested, inhaled or absorbed through the skin. Mutation and toxicity data listed in RTECS under UX9625000. Oral rat LD50 = 25 mg/kg. Toxic effects may include somnolence, convulsions or effect on seizure threshold.

Definitions: RTECS = Registry of Toxic Effects of Chemical Substances.

ECOLOGICAL INFORMATION No information available.

DISPOSAL CONSIDERATIONS Dispose of material in accordance with applicable local, state, and federal regulations.

TRANSPORTATION INFORMATION US DOT / IATA: Toxic solid, corrosive, organic, n.o.s (N-Ethylmaleimide), class 6.1, subsidiary risk 8, UN2928, PG II. Label: Toxic and Corrosive.

REGULATORY INFORMATION RCRA - No applicable information.

SARA 302 - This material does not have an RQ or a TPQ.

SARA 313 - This material is not reportable under Section 313.

EPA TSCA Section 8(b) - Chemical Inventory.

EPA TSCA Section 8(d) - unpublished health/safety studies.

Exposure Limits - Not established.

California Proposition 65 - No applicable information.

This bulletin is for your guidance and is based upon information and tests believed to be reliable. Anatrace makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages thereto. The date is offered solely for your consideration, investigation, and verification. These suggestions should not be confused with either state, municipal, or insurance requirements, or with national safety codes, and constitute no warranty. Any use of these data and information must be determined by the user to be in accordance with applicable Federal, State and local regulations.