Maleic acid

Material Safety Data Sheet

Section 1 - Chemical Name and Company Identification

Section 2 - Composition, Information on Ingredients

Section 3 - Hazards Identification

Section 4 - First Aid Measures

Section 5 - Fire Fighting Measures

Section 6 - Accidental Release Measures

Section 7 - Handling and Storage

Storage:

Engineer Controls:

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below OSHA's PELs.

Section 8 - Exposures Limits

Personal Protective Equipment

Section 9 - Physical and Chemical Properties

Section 10 - Stability and Reactivity

Section 11 - Toxicological Information

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Section 14 - Transport Information

Section 15 - Regulatory Information

Section 16 - Other Information

Section 17 - Percentage of Contents

Date: 05/23/04

Listing:

- 10/1-3/1

Storage:

- Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

Emergency Phone Number US: 201-796-7100

Chemtrec Phone Number US: 800-424-9300

CAS Number: 110-16-7

Chemical Name: Maleic acid

%: 99+

UN Number: 30742-5

Hazard Symbol:

Risk Phrases:

22 36/37/38

EXCLUSION:

- Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal

- Handing:

- Keep container closed when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances.

- Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations below OSHA's PELs.

- Personal Protective Equipment

- Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye protection regulations in 29 CFR 1910.133 or European Standard EN166.

- Skin:

- Wear appropriate protective gloves to prevent skin exposure.

- Clothing:

- Wear appropriate protective clothing to prevent skin exposure.

- Respirators:

- A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN140 overcomes the hazards when workplace conditions warrant respirator use.

- Physical State:

- Crystal

- Color:

- White

- Odor:

- Faint, acidic odor

- Odor Threshold:

- 1.3 tcm m^-3

- bp:

- 0.00044 mm Hg at 25 deg C

- Vapor Pressure:

- Not applicable

- Evaporation Rate:

- Very slow

- Vapors:

- Not available

- Solubility in water:

- Soluble

- Decomposition Temperature:

- 151.4 deg C

- Acid or Base:

- Not applicable

- Specific Gravity/Density:

- 1.59

- Molecular Formula:

- C4H4O4

- Molecular Weight:

- 116.07

- Chemical Stability:

- Stable under normal temperature and pressures.

- Conditions to Avoid:

- Exposure to heat or ignition sources.

- Incompatibilities with Other Materials:

- Strong oxidizing agents, strong reducing agents, strong bases.

- Hazardous Decomposition Products:

- Carbon monoxide, carbon dioxide.

- Hazardous Polymerization:

- May occur

- Toxicological Information

- RTECS #: CAS 140-16-7: GM652500

- LD50: 1500 mg/kg

- MG2: C4H4O4

- Not listed as a carcinogen by ACGIH, IARC, NTP or CA Prop 65.

- Epidemiology:

- No information found

- Teratogenicity:

- No information found

- Reproductive:

- No information found

- Mutagenicity:

- Not listed