



## MATERIAL SAFETY DATA SHEET

### Section 1 — PRODUCT AND SAFETY SUPPLIER INFORMATION

Product Name: Maleic Acid  
Common Name: Maleic Acid  
Supplier: Lightning Powder Company, Inc.  
13386 International Parkway, Jacksonville, FL 32218  
Emergency Telephone: CHEM-TEL, INC. 1-800-255-3924 or 813-979-0626 (call collect)  
Date Prepared: September 21, 2004

### Section 2 — HAZARDOUS INGREDIENTS

<u>Ingredient</u>	<u>CAS#</u>	<u>Percent</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
Maleic Acid	110-16-7	>98	None	None

### Section 3 — PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: White solid with faint, acidulous odor.  
Specific Gravity: 1.59 Solubility in Water: 79% @ 20 C  
Boiling Point: 275 deg. F Melting Point: 266 deg .F  
Vapor Density: n/a Vapor Pressure (mmHg): negligible  
Evaporation Rate: negligible Percent Volatile: negligible

### Section 4 — FIRE AND EXPLOSION DATA

Flash Point: n/a UEL: Not available LEL: Not available  
Extinguishing Media: water spray, dry chemical, CO2, or chemical foam.  
Firefighting Procedures: Wear SCBA and full protective gear.  
Unusual Fire and Explosion Hazards: Thermal decomposition may generate irritating and highly toxic gases. May accumulate static electrical charges and cause ignition of its own vapors.





## Section 9 — PRECAUTIONS FOR SAFE HANDLING AND USE

Special Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Minimize dust generation and use adequate ventilation. Do not get into eyes, on skin, or on clothing. Do not inhale or ingest.

Storage Method: Store in a cool, dry, well-ventilated area away from sources of ignition or incompatible materials.

## Section 10 — TOXICOLOGICAL DATA

Carcinogenicity:

NPT: No

OSHA: No

IARC: No

Acute Inhalation LC50: rat: >720 mg/m<sup>3</sup>/1hr.

Acute Dermal LD50: rabbit: 1560 mg/kg.

Acute Oral LD50: mouse: 2400 mg/kg. : rat : 708 mg/kg.

## Section 11 — ECOLOGICAL DATA

Biodegrades in soil or water.

Fathead Minnow: LC50 = 5 mg/L; 96 hr. : Mosquito Fish : LC50 = 240 mg/L; 24-48 hr.

## Section 12 — TRANSPORTATION IDENTIFICATION

Proper Shipping Name: Maleic acid

Identification Number: NA2215 Hazard Class: 8

Packing Group: III