



## FUMARIC ACID NF/FCC FINE CRYSTAL/POWDER

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity Product Name: FUMARIC ACID NF/FCC FINE CRYST POWDER

General or Generic ID: ORGANIC ACID

Company Emergency Telephone Number: CHEMTREC (800) 424-9300

Regulatory Information Number: 1 (914) 834-1881

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient(s) | CAS Number | % (by weight) |
|---------------|------------|---------------|
| FUMARIC ACID  | 110-17-8   | 100.0         |

### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

Eye: May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

Skin: May cause mild skin irritation. Symptoms may include redness and burning of skin.

Swallowing: Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation: This material is a dust or may produce dust. Symptoms of Exposure Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways).

Target Organ Effects: No data

Developmental Information: No data

Cancer Information: No data

Other Health Effects: No data

Primary Route(s) of Entry Inhalation.

### 4. FIRST AID MEASURES

Eyes: If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.



Swallowing: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician,

medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention. Note to Physicians Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: lung (for example, asthma-like conditions).

## **5. FIRE FIGHTING MEASURES**

Flash Point: Not applicable

Explosive Limit: Not applicable

Autoignition Temperature: No data

Hazardous Products of Combustion May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Fire and Explosion Hazards

Organic dusts can form explosive mixtures in air.

Extinguishing Media regular foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Instructions

Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Refer to the personal protective equipment section of this MSDS.

NFPA Rating Not determined

## **6. ACCIDENTAL RELEASE MEASURES**

Small Spill: Sweep up material for disposal or recovery.

Large Spill: Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material.

## **7. HANDLING AND STORAGE**

Handling Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection: Wear resistant gloves such as: natural rubber, Wear normal work clothing covering arms and legs.

Respiratory Protections: If needed, use a NIOSH/MSHA jointly approved dust respirator. (Ask your safety representative.) Engineering Controls Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Exposure Guidelines Component - No exposure limits established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Specific Vapor Density 4.000 @ AIR=1

Specific Gravity 1.635 @ 68.00 F

Liquid Density Not applicable

Percent Volatiles No data

Evaporation Rate Not applicable

Appearance No data

State SOLID

Physical Form POWDER

Color WHITE, FINE, CRYSTALLINE

Odor No data

pH Not applicable

## 10. STABILITY AND REACTIVITY

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Hazardous Decomposition may form carbon dioxide and carbon monoxide, various hydrocarbons.

Chemical Stability - Stable.

Incompatibility

Avoid contact with: strong alkalies, strong oxidizing agents



Can react with chemically reactive metals, such as aluminum, zinc, magnesium, copper, etc., to release hydrogen gas, which can form explosive mixtures with air.

### **11. TOXICOLOGICAL INFORMATION**

No data

### **12. ECOLOGICAL INFORMATION**

No data

### **13. DISPOSAL CONSIDERATION**

Waste Management Information

Destroy by incineration in accordance with applicable regulations.

### **14. TRANSPORT INFORMATION DOT**

Information - 49 CFR 172.101 DOT

Description: NON-REGULATED BY D.O.T.

Container/Mode: 55 GAL DRUM/TRUCK PACKAGE

NOS Component: None RQ (Reportable Quantity) - 49 CFR 172.101 Product Quantity (lbs)

Component - 5000 FUMARIC ACID

### **15. REGULATORY INFORMATION U.S.**

Federal Regulations

TSCA (Toxic Substances Control Act) Status

TSCA (UNITED STATES)

The intentional ingredients of this product are listed. CERCLA RQ - 40 CFR 302.4(a)

Component RQ (lbs) - FUMARIC ACID 5000

SARA 302 Components - 40 CFR 355

Appendix A: None Section 311/312

Hazard Class - 40

CFR 370.2

Immediate( )

Delayed( )

Fire( )

Reactive( )

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Sudden Release of Pressure( )

SARA 313

Components - 40 CFR 372.65 None

International Regulations Inventory Status Not determined

State and Local Regulations California Proposition 65 None

New Jersey RTK Label Information FUMARIC ACID 110-17-8 Pennsylvania RTK

Label Information 2-BUTENEDIOIC ACID, (E)- 110-17-8

## **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.