

**MATERIAL SAFETY DATA SHEET**  
**DECK & SHAKE BRIGHTNER**

**SECTION I-GENERAL INFORMATION**

**EnviroSpec Product Codes:** ZPDSB  
**Revision Date:** June 19, 2003  
**Emergency Number:** Chemtrec 800-424-9300  
**Information Number:** 800-346-4876  
**Synonyms:** Ethandioic Acid  
**CAS #** 6153-56-6 or 144-62-7 (OSHA substance list)  
**OSHA Hazardous Substance:** No  
**DOT Hazard Class:** Not Regulated

**SECTION II- HAZARDOUS INGREDIENTS IDENTITY INFORMATION**

None

**SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS**

**Boiling Point:** Not Applicable  
**Vapor Pressure (MM Hg):** Not Applicable  
**Vapor Density (AIR = 1):** Not Applicable  
**Specific Gravity (H<sub>2</sub>O 1):** L65  
**Percent Volatile by Volume (%):** Not Applicable  
**Melting Point:** 101 C  
**Evaporation Rate (Butyl Acetate = 1):** Not Applicable  
**Solubility in water:** Moderate - One gram dissolves in 7 ml of water.  
**Appearance and odor:** White crystals, odorless  
**PH:** Solutions are acidic.

**SECTION IV- FIRE AND EXPLOSION HAZARD DATA**

**Flash Point:** Not Applicable  
**Flammable Limits:** Not Applicable  
**Extinguishing Media:** Use a media that is appropriate to treat surrounding fire.  
**Special Fire Fighting Procedures:** Wear self-contained breathing apparatus and goggles. Remove from fire if safely possible.  
**Unusual Fire Explosion Hazard:** Above 250° F material may sublime to irritating corrosive vapor or mist.  
**Auto Ignition Temperature:** Not Applicable

**SECTION V - REACTIVITY DATA**

**Stability:** Stable under normal temperatures and pressures  
**Conditions to Avoid:** Strong oxidizers, alkalis, silver, chlorites, hypochlorites, and furfuryl alcohol.  
**Hazardous Polymerization:** Will not occur under normal conditions.  
**Hazardous Decomposition Products:** Toxic fumes including CO<sub>x</sub>, and formic acid,

## **SECTION VI- HEALTH HAZARD DATA**

**Route(s) of Entry:** Inhalation: Yes Skin: Yes Ingestion: Yes Eye: Yes

**Health Hazards:** Acute TLV 1mg/m<sup>3</sup>

**TOXICITY:** Oral-Human LDLo -71 mg/kg Oral-Rat LD50 375 mg/kg

**Carcinogenicity:** Listed by ACGIH-No IARC-No NTP-No OSHA-No

**Signs-Symptoms of Exposure:** Can cause irritation upon contact with the skin. Dust is irritating to mucous membranes and eyes. Inhalation can cause serious corrosion of mouth, throat and stomach.

**Medical Conditions Aggravated by Exposure:** Dermatitis, allergies and asthma.

### **Emergency First Aid Procedures:**

SKIN: Remove contaminated clothing at once (launder before reuse) wash skin with soap and water.

EYES: Flush thoroughly with water at least 15 mm.

INHALATION: Remove to fresh air.

INGESTION: DO NOT induce vomiting: give dilute milk of magnesia, lime water, or milk if conscious.

## **SECTION VII-PRECAUTIONS FOR SAFE HANDLING AND USE**

**Steps to be taken in case material is released or spilled:** Wear protective clothing. Cover with soda ash or sodium bicarbonate. Pick up for disposal.

**Waste Disposal Method:** Incinerate following all state, federal and local regulations.

**Precautions to be taken in handling and storage:** Keep container tightly closed Protect against physical damage. Store in a cool, dry, well-ventilated area away from oxidizers. Wash gloves thoroughly before removing. Wash face and hands after filling. Clean area thoroughly after use.

## **SECTION VIII- CONTROL MEASURES**

**Respiratory Protection Type:** NIOSH/MSHA approved respirator

**Ventilation Requirements:** Ventilate as necessary to eliminate dust from work area.

**Protective Gloves, clothing or equipment requirements:** Use rubber or neoprene gloves, chemical goggles and clothing sufficient to protect skin from dust.

**Work, hygienic practices:** As required to protect against skin contact. 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.

## **SECTION IX – OTHER INFORMATION**

### **NPA Hazard Information:**

**Non Fire:** Health (1) Flammability (1) Reactivity (O)

**Fire:** Health (2) Flammability (1) Reactivity (O)

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