

**AERCHEM INC.**  
**320 North Walnut**  
**Bloomington, IN 47404**

Tel: 812.334.9996      Fax: 812.334.1960      Emergency: 800.424.9300

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**SECTION 1: IDENTIFICATION**

**Effective Date:** 07/24/96  
**Product Name:** Adipic Acid  
**Molecular Formula:** HOOC(CH<sub>2</sub>)<sub>4</sub>COOH  
**CAS No.:** 124-04-9

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**SECTION 2: HAZARDOUS INGREDIENTS:**

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**SECTION 3: PHYSICAL DATA**

Odor: odorless  
Appearance: powder  
Melting point.: 152C  
Boiling point: 337 C  
Decomposition temperature: N/A  
pH (depends on quality): 3.2  
Solubility in water: 2.5 wt.%  
Specific gravity (water = 1) 1.34  
Vapor density: 5.04  
Vapor pressure: 0.106 mm Hg

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**SECTION 4: FIRE AND EXPLOSION DATA**

Flash point: 196C  
Flammable limit: N/A  
Flammability: combustible. Like most organic powders or crystals, under severe dusting conditions, this material may form explosive mixtures in air.  
Extinguishing media: Water, Foam, Dry chemical. Carbon Dioxide.  
Fire fighting procedures: Wear self-contained breathing apparatus. Wear full protective equipment. Cool tank/container with water spray. Keep personnel removed and upwind of fire. Water may cause frothing.

Unusual fire and explosions hazards: see above.

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**SECTION 5: REACTIVITY DATA**

Stable   X                        Unstable                   

**Decomposition byproducts:** N/A

**Incompatibilities/Condition to Avoid:** Incompatible with strong oxidants such as perchloric acid.

**Hazardous Polymerization:** will not occur.

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**SECTION 6: HEALTH HAZARD DATA**

**Toxicity:** Oral LD50: 940 mg/kg in rats. Aquatic toxicity, 96 hour LC50, fathead minnows: 88 mg/L.

**Route of Entry:** Inhalation, ingestion, skin exposure.

**Permissible Exposure limits:**

**TWA:**

**TLV:** 5 mg/m<sup>3</sup>, 8 hr. TWA

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**SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES**

**Spillage:** Remove source of possible sparks. Recover undamaged and minimally contaminated material for resale and reclamation. Shovel or sweep up. Neutralize with soda ash in event of accidental release.

**Disposal:** Dispose of in accordance with federal and local regulations.

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**SECTION 8: FIRST AID PROCEDURES**

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Call physician.

**Skin Contact:** Flush skin with water after contact. Wash contaminated clothing before reuse.

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Contact a physician.

**Ingestion:** Do not induce vomiting. Immediately give 2 glasses of water unless unconscious. Call a physician. Notes to physician: Activated charcoal mixture may be beneficial. Suspend 50 g activated charcoal in 400 mL water and mix well. Administer 5 mL/kg or 350 mL for an average adult.

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**SECTION 9: HANDLING AND STORAGE INFORMATION:**

Avoid dust generation. Keep away from heat, sparks and flame. Avoid contact with dust on eyes, skin, or clothing. Wash thoroughly after handling. Store in well ventilated place, keeping container tightly closed.

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**SECTION 10: SPECIAL PROTECTION INFORMATION:**

**Ventilation:** Use sufficient ventilation to keep exposure below recommended limits.

**Skin Protection:** Impervious clothing, such as gloves, apron, boots or bodysuit made from neoprene.

**Eye Protection:** Safety glasses; coverall chemical splash goggles and face shield in possible contact situation

**Respiratory Protection:** NIOSH/MSHA approved air purifying respirator with dust/mist filter cartridge.

**Other:**

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**SECTION 11: TRANSPORT INFORMATION**

**DOT Classification:** UN#3077, hazard class 9, packing group III. NOT REGULATED IF LESS THAN 5,000 LBS/PKG.

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**SECTION 12: OTHER REGULATORY INFORMATION**

**Federal and State regulations:**

**WHMIS (Canada):** D2B

**DSCL (EEC):**

**HMIS (USA):**