AERCHEM INC.

320 North Walnut Bloomington, IN 47404

Tel: 812.334.9996 Fax: 812.334.1960 Emergency: 800.424.9300

SECTION 1: IDENTIFICATION

Effective Date: 5/98

Product Name: L-Cysteine HCl monohydrate Molecular Formula: C₃H₇NO₂S-HCl-H₂0

CAS No.: 7048-04-6

SECTION 2: HAZARDOUS INGREDIENTS:

SECTION 3: PHYSICAL DATA

Odor: N/A

Appearance: White, solid, crystalline powder

Melting point.: Decomposes

Boiling point: N/A

Decomposition temperature: 176 °C (348.8 °F)

pH (depends on quality): N/A

Solubility in water: Soluble in cold water.

Specific gravity (water = 1): N/A

Vapor density: N/A Vapor pressure: N/A

SECTION 4: FIRE AND EXPLOSION DATA

Flash point: N/A Flammable limit: N/A Flammability: Combustible

Extinguishing media and procedures: Use DRY chemicals, CO2, water spray or foam.

LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.

Unusual fire and explosions hazards: N/A

Products of Combustion: These products are carbon dioxides, nitrogen oxides, sulfur oxides, halogenated

compounds.

SECTION 5: REACTIVITY DATA

Stable X Unstable

Decomposition byproducts: These products are carbon dioxides, nitrogen oxides, sulfur oxides, halogenated

compounds.

NOTE: The products of degradation are MORE TOXIC.

Incompatibilities/Condition to Avoid: No specific information is available regarding the reactivity.

Hazardous Polymerization: N/A

SECTION 6: HEALTH HAZARD DATA

Toxicity: Acute oral toxicity(LD50): 2550 mg/kg (Mouse)

Route of Entry: Ingestion. Inhalation. **Permissible Exposure limits:** N/A

TWA: N/A **TLV:** N/A

SECTION 7: SPILLAGE AND DISPOSAL PROCEDURES

Spillage: SMALL SPILL: Use appropriate measures to put material into waste disposal container. Finish

cleaning by spreading water onto surface. Dispose of according to federal, local,

and state requirements.

LARGE SPILL: No additional information is available.

Disposal: Dispose of material in proper waste disposal containers.

SECTION 8: FIRST AID PROCEDURES

Eye Contact: Remove any contact lenses. Immediately flush eyes with copious amounts of water for about

15 minutes. DO NOT use eye ointment. Seek medical attention.

Skin Contact: If chemical gets onto clothing, remove contaminated clothing immediately

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Inhalation: Take person to well ventilated area. Seek immediate medical attention.

Remove dentures, if any. Drink several glasses of water or milk. INDUCE VOMITING. Seek **Ingestion:**

medical attention immediately.

SECTION 9: HANDLING AND STORAGE INFORMATION: Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate residue under a fume hood. Ground all equipment containing material. DO NOT breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. Seek medical attention. Avoid contact with eyes and skin.

SECTION 10: SPECIAL PROTECTION INFORMATION:

Ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to

keep airborne levels below recommended exposure limits.

Lab coat. Rubber gloves. **Skin Protection:**

Eve Protection: Splash goggles.

Dust respirator. In case of a large spill, a self-contained breathing apparatus **Respiratory Protection:**

should

be used to avoid inhalation of product.

Other:

SECTION 11: TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material.

SECTION 12: OTHER REGULATORY INFORMATION

Federal and State regulations: N/A

WHMIS (Canada): Not controlled under WHMIS DSCL (EEC): R36/38-Irratating to eyes and skin

HMIS (USA): Health: 0

Flammability: 1 Reactivity: 0