FLINN SCIENTIFIC, INC.
Material Safety Data Sheet (MSDS)

MSDS #: 292.05
Revision Date: April 28, 2011

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

L-Cysteine

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261
CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

L-Cysteine
Synonym: 3-Mercaptoalanine; 2-Amino-3-mercaptopropanoic acid; (R)-Cysteine
CAS#: 52-90-4

SECTION 3 — HAZARDS IDENTIFICATION

White crystals. Stale urine odor.
Substance is not considered hazardous. An amino acid, not for human consumption.

FLINN AT-A-GLANCE
Health-1
Flammability-0
Reactivity-0
Exposure-0
Storage-0
0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.
Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.
Eye or External: Immediately flush with fresh water for at least 15 minutes.
Internal: Rinse mouth. Give large quantities of water for dilution.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solid.

NFPA CODE
None established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from the area. Sweep up the spill, place in a sealed bag or container, and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides, and peracids.
Store in a cool, dry place.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron.

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White, crystals with a stale urine odor.
Solubility: Soluble in water, alcohol, and acetic acid.
Formula: $C_3H_7NO_2S$
Formula weight: 121.16

Melting point: 220 °C (decomposes)

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers.
Shelf life: Good, if kept dry and away from light.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Eye, skin, and body tissue irritant.
Chronic effects: N.A.
Target organs: N.A.

ORL-RAT LD_{50}: 1890 mg/Kg
IHL-RAT LC_{50}: N.A.
SKN-RBT LD_{50}: 1550 mg/Kg

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding.
Flinn Suggested Disposal Method #26a is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated
Hazard class: N/A
UN number: N/A
N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed

SECTION 16 — OTHER INFORMATION

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Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

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