

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 22.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Adrenaline

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

Adrenaline

Synonym: epinephrine

CAS#: 329-65-7 (dl form); 51-43-4 (l form)

Section 3 — Hazards Identification

Fine, white crystals-gradually browning on exposure to light and air. Odorless.

Poisonous: Ingestion may be fatal. Skin contact may cause dermatitis.

FLINN AT-A-GLANCE

Health-3

Flammability-0

Reactivity-0

Exposure-3

Storage-3

0 is low hazard, 3 is high hazard

Section 4 — First Aid Measures

Call a physician, 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: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

Section 5 — Fire Fighting Measures

Non flammable, but combustible liquid.

When heated to decomposition, yields fumes of NO_x.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None Established

Section 6 — Accidental Release Measures

Restrict unprotected personnel from area. Sweep up, place in 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 #2. Store with alcohols, glycols, amines and amides.

Store in a locked poison cabinet. Store in a cool dry place.

Use and dispense in a hood. Chemical is light sensitive and may change color.

Section 8 — Exposure Controls , Personal Protection

Avoid contact with eyes, skin and clothing. Mucous membranes. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Use ventilation to keep airborne concentrations low. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Section 9 — Physical and Chemical Properties

Off white to light brown powder. Odorless.

Solubility: Both are sparingly soluble in water; insoluble in alcohol, chloroform ether and acetone.

Formula: C₉H₁₃NO₃

Formula Weight: 183.21

Melting Point: 197 C (dl form)

Melting Point: 215 C (l form)

Section 10 — Stability and Reactivity

Avoid exposure to light and heat.

Avoid contact with acids, acid chlorides, acid anhydrides and oxidizers.

Shelf life: fair to poor.

Section 11 — Toxicological Information

Acute effects: Highly toxic

Chronic effects: Teratogen

Target organs: Heart, smooth muscle

ORL-RAT LD50: 50 mg/kg

IHL-RAT LC50: N.A.

SKN-RBT LD50: 62 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 consult with state and local regulations.

Flinn Suggested Disposal Method #26a is one option.

Section 14 — Transport Information

Shipping Name: Toxic solids, organic, N.O.S.

Hazard Class: 6.1 Keep away from food

UN Number: UN2811

N/A = Not applicable

Section 15 — Regulatory Information

EINECS-listed (206-347-6). RCRA code P042. (dl form)

Section 16 — Other Information

Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Flinn--"Your Safer Source for Chemicals"

flinn@flinnsci.com www.flinnsci.com
P.O. Box 219 Batavia IL 60510
(800) 452-1261 Fax (866) 452-1436