

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 22.00

Revision Date: April 28, 2011

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 which gradually brown on exposure to light and air. Odorless.

Poisonous: Ingestion may be fatal. Skin contact may cause dermatitis. Not for human consumption.

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 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. Do NOT induce vomiting. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, but combustible liquid.

When heated to decomposition, yields fumes of NO_x.

Fire Fighting Instructions: Use a 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 the area. Ventilate area. Avoid creating a dust. Wipe up with a damp towel, place in a sealed bag or container, and dispose. 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: $C_9H_{13}NO_3$

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: N.A.IHL-RAT LC₅₀: N.A.SKN-RBT LD₅₀: N.A.

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: 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)

EINECS-listed (200-098-7). RCRA code P042. (l form)

SECTION 16 — OTHER INFORMATION

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