

FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

Material Safety Data Sheet (MSDS)

MSDS #: 190.00

Revision Date: November 25, 2002

Section 1 — Chemical Product and Company Identification

Caffeine

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

Caffeine

CAS#: 58-08-2

Section 3 — Hazards Identification

White, odorless crystal.

Irritant to body tissues; toxic by ingestion, as little as 65 mg can be life threatening.

FLINN AT-A-GLANCE

Health-3

Flammability-1

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

Combustible solid, flammable hazard as a dust.

When heated to decomposition, emits toxic 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 cool dry place. Store in a Flinn Chem-Saf bag inside a poison cabinet.

Section 8 — Exposure Controls, Personal Protection

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

Use exhaust ventilation to keep airborne concentrations low.

Section 9 — Physical and Chemical Properties

White, odorless crystal.

Melting Point: 236.8 C

Solubility: Soluble in chloroform; slightly in water; very soluble in ether. Solutions neutral to litmus.

Efflorescent in air.

Formula: C₈H₁₀N₄O₂

Formula Weight: 194.20

Section 10 — Stability and Reactivity

Shelf life: Fair to poor. Effloresces in air resulting in decomposition.

Section 11 — Toxicological Information

Acute effects: Toxic

ORL-RAT LD50: 192 mg/kg

Chronic effects: Possible teratogen and possible mutagen

IHL-RAT LC50: N.A.

Target organs: Central nervous system, heart

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 consult with state and local regulations.

Flinn Suggested Disposal Method #5 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

TSCA-listed, EINECS-listed (200-362-1).

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.

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Flinn Chemical Packaging Prevents Accidents

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