

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 190.00

Revision Date: March 15, 2012

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 crystal. Odorless.

Irritant to body tissues. Toxic by ingestion - as little as 65 mg can be life threatening. Not for human consumption.

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 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. 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 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. 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 #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.

Solubility: Soluble in chloroform and ether, slightly soluble in water.

Solutions neutral to litmus.

Formula: $C_8H_{10}N_4O_2$

Formula weight: 194.20

Boiling point: 90 °C (sublimes)

Melting point: 238 °C

Specific gravity: 1.23

Used in LD₅₀ studies, daphnia heart rate and root tip mitosis inhibition (<0.1%) experiments.

SECTION 10 — STABILITY AND REACTIVITY

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

SECTION 11 — TOXICOLOGICAL INFORMATION

Not for human consumption.

Acute effects: Toxic.

Chronic effects: Possible teratogen and possible mutagen.

Target organs: Central nervous system and heart. Mitotic inhibitor.

ORL-RAT LD₅₀: 192 mg/kgIHL-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 #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

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