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SDS #: 190
Revision Date: March 21, 2014

Safety Data Sheet (SDS)

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Signal Word
DANGER

Caffeine

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261
Chemtrec Emergency Phone Number: (800) 424-9554

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral (Category 3). Toxic if swallowed (H301). Do not eat, drink or smoke when using this product (P270).

Product should be treated as a chemical and is not for consumption as it has been stored with other nonfood-grade chemicals.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Caffeine	58-08-2	$C_8H_{10}N_4O_2$	194.2	

SECTION 4 — FIRST AID MEASURES

Call a POISON CENTER or physician if you feel unwell.
If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
If on skin: Wash with plenty of water.
If swallowed: Rinse mouth. Immediately call a POISON CENTER or physician (P301+P310+P330).

SECTION 5 — FIRE FIGHTING MEASURES

Combustible solid, flammable hazard as a dust. **NFPA Code**

When heated to decomposition, may emit toxic fumes. None established
In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Wipe 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. Wash hands thoroughly after handling (P264).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White crystal. Odorless.
Soluble: Chloroform. Slightly in water and alcohol.

Boiling point: 90 °C (sublimes)
Melting point: 238 °C
Specific gravity: 1.23
Used in LD_{50} 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. See Section 7 for further information.

SECTION 11 — TOXICOLOGICAL INFORMATION

Not for human consumption!
Acute effects: Toxic, as little as 65 mg can be life threatening.
Chronic effects: Possible teratogen and possible mutagen.
Target organs: Central nervous system and heart.
Mitotic inhibitor.

ORL-RAT LD_{50}: 192 mg/kg
IHL-RAT LC_{50}: N.A.
SKN-RBT LD_{50}: N.A.

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.

SECTION 15 — REGULATORY INFORMATION

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

SECTION 16 — OTHER INFORMATION

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

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

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