

## Safety Data Sheet (SDS)

7/29/2024: File reviewed, more current MSDS/SDS not available. CAS

**SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

## Caffeine

Signal Word  
**DANGER**

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 <sub>8</sub> H <sub>10</sub> N <sub>4</sub> O <sub>2</sub>	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.  
In case of fire: Use a tri-class dry chemical fire extinguisher.

None established

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## SECTION 6 — ACCIDENTAL RELEASE MEASURES

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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.

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## SECTION 7 — HANDLING AND STORAGE

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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.

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Avoid contact with eyes. Wash hands thoroughly after handling (P264).

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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White crystal. Odorless.	Boiling point: 90 °C (sublimes)
Soluble: Chloroform. Slightly in water and alcohol.	Melting point: 238 °C
	Specific gravity: 1.23
	Used in LD <sub>50</sub> studies, daphnia heart rate and root tip mitosis inhibition (<0.1%) experiments.>

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## SECTION 10 — STABILITY AND REACTIVITY

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Shelf life: Fair to poor. Effloresces in air resulting in decomposition. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Not for human consumption!	ORL-RAT LD <sub>50</sub> : 192 mg/kg
Acute effects: Toxic, as little as 65 mg can be life threatening.	IHL-RAT LC <sub>50</sub> : N.A.
Chronic effects: Possible teratogen and possible mutagen.	SKN-RBT LD <sub>50</sub> : N.A.
Target organs: Central nervous system and heart.	
Mitotic inhibitor.	

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## SECTION 12 — ECOLOGICAL INFORMATION

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Data not yet available.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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Please review all federal, state and local regulations that may apply before proceeding.  
Flinn Suggested Disposal Method #5 is one option.

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## SECTION 14 — TRANSPORT INFORMATION

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Shipping name: Toxic solids, organic, N.O.S. Hazard class: 6.1, Keep away from food. UN number: UN2811.

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## SECTION 15 — REGULATORY INFORMATION

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

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## 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.**

**Revision Date:** March 21, 2014

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