

Catalog Number: 101194 Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 101194

Product name: CAFFEINE MONOHYDRATE

Synonyms: 1,3,7-Trimethylxanthine Monohydrate; 3,7-Dihydro-1,3,7-Trimethyl-1H-Purine-2,6-Dione; 7-

Methyltheophylline; Theine

Supplier:

MP Biomedicals, LLC 29525 Fountain Parkway

Solon, OH 44139 tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

ComponentsCAS NumberWeight %ACGIH Exposure Limits:OSHA Exposure Limits:CAFFEINE MONOHYDRATE58-08-290 - 100%NoneNone

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful by inhalation, in contact with skin and if swallowed.

Category of Danger:

Harmful

Principle routes of exposure: Skin Inhalation: Harmful by inhalation. Ingestion: Harmful if swallowed.

Skin contact: Harmful in contact with skin. **Eye contact:** Risk of serious damage to eyes

Statements of hazard HARMFUL IF SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR

INHALED.

Statement of Spill or Leak - ANSI Label Eliminate all ignition sources. Absorb and/or contain spill with inert materials (e.g., sand, vermiculite). Then place in appropriate container. For large spills, use water spray to disperse vapors, flush spill area. Prevent runoff from entering waterways or sewers.

Statement of First Aid If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician.

Precautions - ANSI Label Do not taste or swallow. Wash thoroughly after handling.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Catalog Number: 101194 Product name: CAFFEINE MONOHYDRATE Page 1 of 6

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water and seek medical advice

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Consult a physician

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO2, water spray or "alcohol" foam

Specific hazards: Burning produces irritant fumes.

Unusual hazards: None known

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

Water mist may be used to cool closed containers.

Not determined Not determined

Flash point:

Specific methods:

Autoignition temperature:

NFPA rating:

NFPA Health: 2 NFPA Flammability: 0 NFPA Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:Use personal protective equipment. **Environmental precautions:**Prevent product from entering drains.

Methods for cleaning up:Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling: Use only in area provided with appropriate exhaust

ventilation.

Safe handling advice: Wear personal protective equipment.

Technical measures/storage conditions: Keep containers tightly closed in a cool, well-ventilated

place.

Incompatible products:Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: Breathing apparatus only if aerosol or dust is formed.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against

this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



Catalog Number: 101194 Product name: CAFFEINE MONOHYDRATE Page 2 of 6

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Powder Formula: C8H1ON4O2

Molecular weight: 212.2 Melting point/range: 238

Boiling point/range: No Data available at this time.

Density: 1.23 a/ml

Vapor pressure: No data available **Evaporation rate:** No data available Vapor density: No data available

Solubility (in water): Soluble

Flash point: Not determined Autoignition temperature: Not determined

10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Polymerization: None under normal processing. Hazardous decomposition products: Nitrogen oxides (NOx)/ammonia/CN-

Materials to avoid: Strong oxidising agents

Conditions to avoid: Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information Acute toxicity

Components **RTECS Number:** Selected LD50s and LC50s CAFFEINE MONOHYDRATE EV6475000 Oral LD50 Rat: 192 mg/kg

Oral LD50 Mouse: 127 mg/kg

Chronic toxicity: Chronic exposure may cause nausea and vomiting, higher exposure causes

unconsciousness.

Local effects: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting.

Specific effects: May include moderate to severe erythema (redness) and moderate edema (raised

skin), nausea, vomiting, headache.

No data is available on the product itself. **Primary irritation:** Carcinogenic effects: No data is available on the product itself. Mutagenic effects: No data is available on the product itself. Reproductive toxicity: No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility: No data available **Bioaccumulation:** No data available **Ecotoxicity effects:** No data available

Aquatic toxicity: May cause long-term adverse effects in the aquatic

environment.

Components U.S. DOT - Appendix B -

Marine Pollutan

CAFFEINE MONOHYDRATE Not Listed U.S. DOT - Appendix B -

United Kingdom - The Red

Severe Marine Pollutants List:

Not Listed Not Listed

Product name: CAFFEINE MONOHYDRATE Catalog Number: 101194 Page 3 of 6

Components Germany VCI (WGK) World Health Organization Ecotoxicity - Fish Species

(WHO) - Drinking Water Data

CAFFEINE MONOHYDRATE Not Listed Not Listed Not Listed

Components Ecotoxicity - Freshwater Ecotoxicity - Microtox Data Ecotoxicity - Water Flea

Algae Data Data

CAFFEINE MONOHYDRATE Not Listed Not Listed Not Listed

Components EPA - ATSDR Priority List EPA - HPV Challenge California - Priority Toxic

Program Chemical List Pollutants
Not Listed indicator 4; Fully and ICCA Not Listed

sponsored

Components California - Priority Toxic Pollutants California - Priority Toxic Pollutants

CAFFEINE MONOHYDRATE Not Listed Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: Waste disposal must be in accordance with appropriate

Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished

with this material may be hazardous.

Contaminated packaging: Do not re-use empty containers

14. TRANSPORT INFORMATION

UN/Id No: 1544

DOT:

CAFFEINE MONOHYDRATE

Proper shipping name: Alkaloids, solid, n.o.s.

IATA Hazard Label(s):ToxicHazard Class6.1 -

Toxic substances - oral

Packing group:

Emergency Response Guide Number (ERG): 151

Components U.S. DOT - Appendix A Table 1 - Reportable Quantities

CAFFEINE MONOHYDRATE Not Listed

TDG (Canada):

WHMIS hazard class:

D1b toxic materials

D2b toxic materials

(B)



IMDG/IMO

Proper shipping name: Alkaloids, solid, n.o.s.

IMDG - Hazard Classifications Not Applicable

Catalog Number: 101194 Product name: CAFFEINE MONOHYDRATE Page 4 of 6

Components U.S. DOT - Appendix B - Marine Pollutan U.S. DOT - Appendix B - Severe Marine

Pollutants
Not Listed

CAFFEINE MONOHYDRATE Not Listed Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

CAFFEINE MONOHYDRATE

Inventory - United States TSCA - Sect. 8(b)

Canada DSL Inventory List
Australia (AICS):

Present
Inventory - China:

Present

EU EINECS List - 200-362-1; C8H10N4O2

Inventory - Japan: 9-419
Korean KECL: KE-10766
Philippines PICCS: Present

U.S. regulations:

Components

California Proposition 65 Massachusetts Right to Know List:

New Jersey Right to Pennsylvania Right to Know List:

List:

CAFFEINE MONOHYDRATE Not Listed Not Listed Not Listed Not Listed

Components Florida substance List: Rhode Island Right to Know List: Rhode Island Right to Contaminants Connecticut - Hazardous Air Pollutants

CAFFEINE MONOHYDRATE Not Listed Not Listed Not Listed Not Listed

Components SARA 313 Emission CERCLA/SARA - Section NTP: IARC:

reporting/Toxic Release 302 Extremely Haz

of Chemicals

CAFFEINE MONOHYDRATE Not Listed Not Listed None None

SARA 313 Notification: The above is your notification as to the SARA 313 listing for this product(s) pursuant

to Section 313 of Title III of the Superfund Ammendments and Reauthorization Act of

1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community

Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in

Washington, DC or Alaska).

State Notification: The above information is your notice as to the Right-to-Know listings of the stated

product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive

hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

Catalog Number: 101194 Product name: CAFFEINE MONOHYDRATE Page 5 of 6

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End of Safety Data Sheet

Catalog Number: 101194 Product name: CAFFEINE MONOHYDRATE Page 6 of 6