



Material Safety Data Sheet

Catalog Number: 212739
Revision date: 25-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 212739

Product name: CADMIUM STEARATE

Synonyms: Stearic Acid, Cadmium Salt; Octadecanoic Acid, Cadmium Salt

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

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
CADMIUM STEARATE	2223-93-0	90 - 100%	0.01 mg/m ³ TWA	0.2 mg/m ³ TWA (dust); 0.1 mg/m ³ TWA (fume); apply only to exempt operations

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Harmful: danger of serious damage to health by prolonged exposure through inhalation, skin contact and if swallowed. , Harmful to flora, fauna, soil organisms and aquatic organisms.

Category of Danger:

Harmful , Dangerous for the environment , Carc. cat. 2

Principle routes of exposure: Skin

Inhalation: Harmful: possible risk of irreversible effects through inhalation.

Ingestion: Harmful: danger of serious damage to health if ingested.

Skin contact: Harmful: danger of serious damage to health by prolonged skin contact.

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. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. Do not breathe vapors or spray mist Avoid breathing vapors. Avoid contact with skin, eyes and clothing

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).

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

Skin contact: Rinse immediately with plenty of water for at least 15 minutes

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician Drink 1 or 2 glasses of water. Induce vomiting, but only if victim is fully conscious. Induce vomiting if person is conscious. Obtain medical attention.

Eye contact: Flush eye(s) immediately with plenty of water. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

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

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

>260°C

Autoignition temperature:

Not determined

NFPA rating:

NFPA Health:	2
NFPA Flammability:	1
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. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep containers tightly closed in a cool, well-ventilated place. Keep container tightly closed in a dry and well-ventilated place.

Incompatible products:

Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

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: Impervious clothing Long sleeved clothing

Eye protection: Safety glasses with side-shields

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



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Solid
Formula:	Cd(C ₁₈ H ₃₅ O ₂)
Molecular weight:	112.41
Melting point/range:	320.9 °C
Boiling point/range:	765 °C
Density:	No data available
Vapor pressure:	1.33 hPa at 394 °C
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	Insoluble
Flash point:	>260°C
Autoignition temperature:	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Polymerization:	None under normal processing.
Hazardous decomposition products:	Cadmium
Materials to avoid:	-
	Strong oxidizers, elemental sulfur, selenium, tellurium (Dust as Cd)
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components
CADMIUM STEARATE

RTECS Number:
RG1050000

Selected LD50s and LC50s

Inhalation LC50 Rat : 130 mg/m³/2H
Oral LD50 Rat : 1125 mg/kg
Oral LD50 Mouse : 590 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.	
Primary irritation:	No data is available on the product itself.	
Carcinogenic effects:	Possible carcinogen	
Mutagenic effects:	No data is available on the product itself.	
Reproductive toxicity:	No data is available on the product itself.	
Components	NIOSH - Health Effects	NIOSH - Target Organs
CADMIUM STEARATE	dust and fume; Lung cancer, prostatic cancer, renal system effects	respiratory system, kidneys, blood, prostatic and lung cancer

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	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
CADMIUM STEARATE	Not Listed	DOT regulated severe marine pollutant	Original entry
Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
CADMIUM STEARATE	Not Listed	0.003 mg/L	LC50 (96 hr) rainbow trout (swimup):1.3 ug/L.;LC50 (96hr) striped bass (fingerlings):2.0 ug/L:
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
CADMIUM STEARATE	Not Listed	Not Listed	LC50 (96 hr) water flea: 9.9 ug/L
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
CADMIUM STEARATE	Rank (of 275): 007	Not Listed	Maximum concentration = 4.3 ug/L; continuous concentration = 2.2 ug/L
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
CADMIUM STEARATE	No human health criteria is being promulgated for these contaminants. However, permit authorities should address these contaminants during the permit process.	Maximum concentration = 42 ug/L; continuous concentration = 9.3 ug/L	

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:	2570
DOT:	
Proper shipping name:	Cadmium compound
IATA Hazard Label(s):	Toxic
Hazard Class	6.1 -
	Toxic substances - oral
Packing group:	III

Emergency Response Guide Number (ERG): 154

Components

CADMIUM STEARATE

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

RQ = 10 pounds (4.54 kg); The RQ for these hazardous substances is limited to those pieces of the metal having a diameter smaller than 100 micrometers (0.004 inches).

TDG (Canada):

WHMIS hazard class:

D2a very toxic materials



IMDG/IMO

Proper shipping name:

Cadmium compound

IMDG - Hazard Classifications

IMDG class or division = 6.1, PP

IMDG - Regulated Substances

UN2570

IMDG - Severe Marine Pollutants

UN2570

Components

CADMIUM STEARATE

U.S. DOT - Appendix B - Marine Pollutan

Not Listed

U.S. DOT - Appendix B - Severe Marine Pollutants

DOT regulated severe marine pollutant

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

CADMIUM STEARATE

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

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

218-743-6; C18H36O2.1/2Cd

Inventory - Japan:

2-615

Korean KECL:

KE-26346

Philippines PICCS:

Present

U.S. regulations:

Components

CADMIUM STEARATE

California Proposition 65
-
carcinogen; initial date 10/1/87
developmental toxicity; initial date 5/1/97
male reproductive toxicity; initial date 5/1/97

Massachusetts Right to Know List:
extraordinarily hazardous

New Jersey Right to Know List:
sn 2201

Pennsylvania Right to Know List:
environmental hazard

Components

CADMIUM STEARATE

Florida substance List: effective March 13, 1992	Rhode Island Right to Know List: Toxic, Carcinogen	Illinois - Toxic Air Contaminants B1 Carcinogen, Present on Great Waters or Great Lakes list	Connecticut - Hazardous Air Pollutants 0.4 ug/m ³ HLV (metal and dust)
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Components

CADMIUM STEARATE

SARA 313 Emission reporting/Toxic Release of Chemicals form R reporting required for 0.1% de minimis concentration	CERCLA/SARA - Section 302 Extremely Haz TPQ = 1000/10,000 pounds; RQ = 1000 pounds (calculated TPQ changed after technical review as described in the technical support document	NTP: Known Carcinogen	IARC: Monograph 58, 1993; (Evaluated as a group)
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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

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End of Safety Data Sheet