



Material Safety Data Sheet

Catalog Number: 207644
Revision date: 25-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 207644

Product name: CHROMIUM SULFIDE

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:
CHROMIUM SULFIDE	12018-22-3	90 - 100%	0.5 mg/m ³ TWA	1 mg/m ³ TWA

3. HAZARDS IDENTIFICATION

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

Category of Danger:

Harmful , Dangerous for the environment

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.

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 and seek medical advice

Ingestion: Do not induce vomiting without medical advice.

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 media appropriate for the surrounding fire., Do not use carbon dioxide.
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:	Not determined
Autoignition temperature:	Not determined
NFPA rating:	
NFPA Health:	1
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.
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.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor	Steel-grey, lustrous; odorless; available as lumps, granules, powder or high purity single crystals
Physical state:	Solid
Formula:	Cr
Molecular weight:	52

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Melting point/range:	1900 °C (3452 °F)
Boiling point/range:	2642 °C (4788 °F)
Density:	7.2 (water = 1)
Vapor pressure:	Practically zero at room temperature 1 mm Hg at 1616 °C
Evaporation rate:	No data available
Vapor density:	No data available
Solubility (in water):	Insoluble
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:	Chromium (Cr-)
Materials to avoid:	-
	Water (Listed under Chromium, Soluble Chromic, Chromous Salts (as Cr)); Strong oxidizers (Listed under Chromium, Metal and Insoluble Salts)
Conditions to avoid:	Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components
CHROMIUM SULFIDE

RTECS Number:
Not Available

Selected LD50s and LC50s
Not Determined

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:

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.

Components
CHROMIUM SULFIDE

NIOSH - Health Effects
Low-order toxicity

NIOSH - Target Organs
skin, eyes

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
CHROMIUM SULFIDE

**U.S. DOT - Appendix B -
Marine Pollutan**
Not Listed

**U.S. DOT - Appendix B -
Severe Marine Pollutants**
Not Listed

**United Kingdom - The Red
List:**
Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
CHROMIUM SULFIDE	Not Listed	0.05 mg/L (Provisional)	LC50 (96 hr) rainbow trout (juveniles):4400 ug/L;;LC50 (96 hr) fathead minnow:5070 ug/L Cond: water hardness = 20 mg CaCO3/L
Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
CHROMIUM SULFIDE	Not Listed	Not Listed	LC50 (96 hr) water flea:2000 ug/L;Cond: water hardness: 48 mg CaCO3/L;LC50 (96 hr) water flea:16,800 ug/L;Cond: water hardness: 52 mg CaCO3/L
Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
CHROMIUM SULFIDE	Rank (of 275): 073	Not Listed	Maximum concentration = 550 ug/L; continuous concentration = 180 ug/L
Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants	
CHROMIUM SULFIDE	No human health criteria is being promulgated for these contaminants. However, permit authorities should address these contaminants during the permit process.	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: 3077

DOT:

Proper shipping name: Environmentally hazardous substance, solid, n.o.s.
IATA Hazard Label(s): Miscellaneous
Hazard Class: 9 -
 Other miscellaneous materials
Packing group: III

Emergency Response Guide Number (ERG): 171

Components
CHROMIUM SULFIDE

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

RQ = 5000 pounds (2270 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:

Environmentally hazardous substance, solid, n.o.s.

IMDG - Hazard Classifications

Not Applicable

Components

U.S. DOT - Appendix B - Marine Pollutan

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

CHROMIUM SULFIDE

Not Listed

Not Listed

IMO-labels:

15. REGULATORY INFORMATION

International Inventories

Components

CHROMIUM SULFIDE

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

Present

Canada DSL Inventory List -

Present

Canada NDSL Inventory List -

Cr2S3

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

234-638-8; Cr2S3

Korean KECL:

KE-10241

Philippines PICCS:

Present

U.S. regulations:

Components

CHROMIUM SULFIDE

California Proposition 65

- Not Listed

Massachusetts Right to Know List:

carcinogen; extraordinarily hazardous

New Jersey Right to Know List:

sn 0432

Pennsylvania Right to Know List:

environmental hazard

Components

CHROMIUM SULFIDE

Florida substance List:

[present]

Rhode Island Right to Know List:

Toxic, Carcinogen

Illinois - Toxic Air Contaminants

Present on Great Waters or Great Lakes list

Connecticut - Hazardous Air Pollutants

2.5 ug/m³ HLV

Components

CHROMIUM SULFIDE

SARA 313 Emission reporting/Toxic Release of Chemicals

form R reporting required for 1.0% de minimis concentration

CERCLA/SARA - Section 302 Extremely Haz

Not Listed

NTP:

None

IARC:

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 Amendments 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