

Safety data sheet

Chromitan* FM

Revision date : 2005/02/08
Version: 1.0

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(30059767/MDS_LEA_US/EN)

1. Substance/preparation and company identification

Company
BASF CORPORATION
100 Campus Drive
Florham Park, NJ 07932

24 Hour Emergency Response Information
CHEMTREC: (800) 424-9300
BASF HOTLINE: (800) 832-HELP

Chemical family: inorganic metal salts

2. Composition/information on ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
12336-95-7	>= 50.0 - <= 55.0 %	chromium hydroxide sulphate
7757-82-6	>= 45.0 - <= 50.0 %	sodium sulphate
	>= 50.0 - <= 55.0 %	CHROMIUM COMPOUNDS

3. Hazard identification

Emergency overview

CAUTION: CAN CAUSE LIVER DAMAGE.
CONTAINS MATERIAL THAT MAY ADVERSELY EFFECT THE DEVELOPING FETUS.
Avoid inhalation of dusts.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) particulate respirator.
Wear NIOSH-certified chemical goggles.
Wear protective clothing.
Eye wash fountains must be easily accessible.

Potential health effects

Primary routes of exposure

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Information on: Sodium sulfate

Ingestion of sodium sulfate solutions may cause gastrointestinal irritation, extremely large doses have been known to produce nervous signs, tremors and convulsions.

Irritation:

Information on: Chromium III

Contact with chromium III has been reported to cause dermatitis in humans.

Repeated dose toxicity:

No known chronic effects.

Potential environmental effects

Aquatic toxicity:

The product has not been tested. The statement has been derived from products of a similar structure and composition.

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4. First-aid measures

General advice:

Remove contaminated clothing.

If inhaled:

If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Flush with copious amounts of water for at least 15 minutes. Hold eyelids open to facilitate rinsing. If irritation develops, seek immediate medical attention.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

5. Fire-fighting measures

Suitable extinguishing media:

water spray, dry extinguishing media, foam

Unsuitable extinguishing media for safety reasons:

carbon dioxide

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Use personal protective clothing.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Contain with dust binding material and dispose of.

7. Handling and storage

Handling**General advice:**

Breathing must be protected when large quantities are decanted without local exhaust ventilation.

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Protection against fire and explosion:
No special precautions necessary.

Storage

General advice:
Keep container tightly closed and dry; store in a cool place.

Temperature tolerance
Protect from temperatures above: 40 °C

8. Exposure controls and personal protection

Components with workplace control parameters

chromium hydroxide sulphate	OSHA	PEL 1 mg/m ³ ; PEL 0.5 mg/m ³ (Chromium (Cr));
	ACGIH	TWA value 0.5 mg/m ³ (Chromium (Cr));

Advice on system design:
Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:
Chemical resistant protective gloves

Eye protection:
Wear safety goggles (chemical goggles) if there is potential for airborne dust exposures.

General safety and hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. Due to the colouring properties of the product closed work clothes should be used, to avoid stains during manipulation. Employees should shower at the end of the shift. Protective clothing should be laundered daily. Wash soiled clothing immediately.

9. Physical and chemical properties

Form:	powder	
Odour:	product specific	
Colour:	dark green	
pH value:	2.5 - 3.0	(100 g/l, 20 °C)
Bulk density:	880 - 920 kg/m ³	
Solubility in water:	> 100 g/l	(20 °C)

10. Stability and reactivity

Conditions to avoid:
Avoid humidity.

Hazardous reactions:
The product is chemically stable.

Decomposition products:

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Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Corrosion to metals:
No corrosive effect on metal.

11. Toxicological information

Acute toxicity

Oral:
LD50/rat: > 5,000 mg/kg

Skin irritation:
rabbit: non-irritant (BASF-Test)

Eye irritation :
rabbit: non-irritant (BASF-Test)

Sensitization:
Can sensitize the skin and/or respiratory tract of allergic persons.

Chronic toxicity

Other information:
The product has not been tested. The statement has been derived from products of a similar structure and composition.

12. Ecological information

Environmental fate and transport

Biodegradation:
Evaluation: Inorganic product which cannot be eliminated from water by biological purification processes.

Environmental toxicity

Acute and prolonged toxicity to fish:
golden orfe/LC50 (96 h): > 100 mg/l

Toxicity to microorganisms:
DEV-L2 : 20 mg/l

Other ecotoxicological advice:
Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:
Must be dumped or incinerated in accordance with local regulations.

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Check for possible recycling.

Contaminated packaging:

Dispose of in a licensed facility. Empty containers or liners may retain product residues. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA: D007

14. Transport information

Reference Bill of Lading

15. Regulatory information

Federal Regulations

Registration status:

TSCA, US released / listed

OSHA hazard category: Skin and/or eye irritant, Chronic target organ effects reported, ACGIH TLV established, OSHA PEL established, Acute target organ effects reported

SARA hazard categories (EPCRA 311/312): Acute, Chronic

SARA 313:

<u>CAS Number</u>	<u>Chemical name</u>
12336-95-7	chromium hydroxide sulphate CHROMIUM COMPOUNDS

State regulations

State RTK

<u>CAS Number</u>	<u>Chemical name</u>	<u>State RTK</u>
12336-95-7	chromium hydroxide sulphate	NJ, PA

16. Other information

HMIS III rating

Health: 2⁺ Flammability: 1 Physical hazard: 0

HMIS uses a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates high hazard.

Local contact information

mail box address
mail: see user defined text

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