



Division of D.I.S. Company Limited

Material Safety Data Sheet

Chrome sulfate

1. IDENTIFICATION OF SUBSTANCE

MSDS Name : Chrome sulfate
CAS No. : 12336-95-7
Formula : $\text{Cr}(\text{OH})_m(\text{SO}_4)_n \cdot x\text{H}_2\text{O}$

2. COMPANY IDENTIFICATION

Company Name : Canada DIS Company Limited
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3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

A harmful concentration of airborne particles can be reached quickly when dispersed.

The substance irritating to the respiratory tract.

Inhalation: Cough, Sore throat

Ingestion: Nausea, Abdominal pain, Vomiting, Diarrhea.

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged contact may cause skin sensitization.

4. FIRST AID MEASURES

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. Give plenty of water to drink. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.



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Serious Ingestion: Not available.

5. FIRE FIGHTING MEASURES

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available.

Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

6. ACCIDENTAL RELEASE MEASURES

Small Spill:

Vacuum spilled material or sweep spilled substance into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

7. HANDLING and STORAGE

Precautions:

Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes.

Storage:

Store in cool and dry place, keep away from sunlight and heat sources. The solubility decreases by storing the product near radiators, etc. or under the sun. Use shelves or cabinets sturdy enough to bear the weight of the chemicals. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist

BEFORE handling this product.

Exposure Limits:

TWA: 0.5mg/m³

Consult local authorities for acceptable exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Green powder
Odor	: None
PH	: 2.4~4.5
Vapor Pressure	: Not available.
Viscosity	: Not available
Boiling Point	: Not available
Freezing/Melting Point	: Not available
Auto-ignition Temperature	: Not available.
Flash Point	: Not applicable.
Explosion Limits, lower	: Not available.
Explosion Limits, upper	: Not available.
Decomposition Temperature	: Not available
Solubility in water	: solubility in water
Specific Gravity/Density	: 1.25 (Water = 1)
Molecular Formula	: Cr(OH)m.(SO ₄)n. xH ₂ O
Molecular Weight	: 165.1

10. STABILITY AND REACTIVITY

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: No.

11. TOXICOLOGICAL INFORMATION

Routes of Entry: Eye contact. Inhalation. Ingestion.

Toxicity to Animals:

LD50: 3000mg/kg body weight.

LC50: Not available.

Chronic Effects on Humans: repeated or prolonged contact may cause skin sensitization

Other Toxic Effects on Humans: Not available

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Not available.



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12. ECOLOGICAL INFORMATION

Ecotoxicity: No data is available on the short or long term effects of chromium (III) to plants, birds or land animals. The substance is toxic to aquatic organisms

BOD5 and COD: Not available.

Products of Biodegradation: Not available

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

14. TRANSPORT INFORMATION

Not a dangerous cargo. Keep separate from foodstuffs. Keep container tightly closed. Suitable for any general chemical storage area.

15. REGULATORY INFORMATION

Based on UN "Recommendations on the TRANSPORT OF DANGEROUS GOODS", not classified as hazardous.

16. ADDITIONAL INFORMATION

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.

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