Fisher Scientific

Material Safety Data Sheet Chromium (III) Sulfate Hydrate

MSDS# 04970

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	Section 1 - Chemical Produ	ct and Company Identification			
MSDS Name:	he: Chromium (III) Sulfate Hydrate				
Catalog Numbers:	atalog Numbers: C338-500				
Synonyms:	Chromic sulfate; dichromium sulfate; sulfuric acid chromium salt				
Company Identification: For information in the US, call:		Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410			
		201-796-7100			
Emergency Number US:		201-796-7100			
CHEMTREC Phone Number, US:		800-424-9300			
		Information on Ingredients			
 CAS#:					
Chemical Name: Chromium (III) Sulfate H		drate			
⁰ /0:	100%				
EINECS#: 233-253-2					
Hazard Symbo	ols: XI				
×					
Risk Phrases:	36/37/38				
	Section 3 - Haz	ards Identification			
	EMERGENC	Y OVERVIEW			
Warning! May cause a		in, and respiratory tract irritation. Target Organs: Respiratory eyes, skin.			
Potential Health Effects					
Eye: Causes eye irr	ritation.				
N/1n ²	Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re-				
Ingestion: Causes gastroi	intestinal irritation with nausea, vomi	iting and diarrhea.			
Inhalation: Causes respira	atory tract irritation.				
Chronic: No informatio	n found.				
	Section 4 - Fin	rst Aid Measures			
EVes	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.				
NK10	Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.				
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk		fuls of milk or water. Get medical aid.			
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration breathing is difficult, give oxygen. Get medical aid.					

Notes to

Physician:

Section 5 - Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved General or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by Information: thermal decomposition or combustion. Runoff from fire control or dilution water may cause pollution. Extinguishing Substance is noncombustible; use agent most appropriate to extinguish surrounding fire. Media:

Autoignition Temperature: Not available. Flash Point: Not available Explosion Limits: Lower: Not available Explosion Limits: Upper: Not available NFPA Rating: health: 1; flammability: 0; instability: 0; Section 6 - Accidental Release Measures General Use proper personal protective equipment as indicated in Section 8. Information: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide Spills/Leaks: ventilation. Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Avoid contact with skin and eyes. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

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Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
 Chromium (III) Sulf ate Hydrate	none listed	none listed	 none listed
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OSHA Vacated PELs: Chromium (III) Sulfate Hydrate: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes: protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves to prevent skin exposure. Skin:

Clothing: Wear appropriate protective clothing to minimize contact with skin.

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a Respirators: NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid Color: green to violet to red Odor: odorless pH: 1.0-2.5 5% solution Vapor Pressure: Negligible.

Vapor Density: Not available Evaporation Rate: Not applicable. Viscosity: Not applicable. Boiling Point: Not available Freezing/Melting Point: Not available Decomposition Temperature: Not available Solubility in water: Soluble in water. Specific Gravity/Density: 1.7-3.0 Molecular Formula: Cr2(SO4)3.nH2O Molecular Weight: 392.1648 Section 10 - Stability and Reactivity Chemical Stability: Stable under normal temperatures and pressures. Conditions to Avoid: None reported. Incompatibilities with Other Materials Not available Hazardous Decomposition Products Oxides of sulfur, oxides of sulfur. Hazardous Polymerization Has not been reported. Section 11 - Toxicological Information CAS# 10101-53-8: GB7200000 RTECS#: LD50/LC50: RTECS: Not available. Chromium (III) Sulfate Hydrate - IARC: Group 3 (not classifiable) Carcinogenicity: Other: See actual entry in RTECS for complete information. Section 12 - Ecological Information Not available Section 13 - Disposal Considerations Dispose of in a manner consistent with federal, state, and local regulations. Section 14 - Transport Information US DOT Shipping Name: Not regulated as a hazardous material Hazard Class: UN Number: Packing Group: Canada TDG Shipping Name: Not available Hazard Class: UN Number: Packing Group: USA RQ: CAS# 10101-53-8: 1000 lb final RQ; 454 kg final RQ Section 15 - Regulatory Information European/International Regulations European Labeling in Accordance with EC Directives Hazard Symbols: XI **Risk Phrases:** R 36/37/38 Irritating to eyes, respiratory system and skin. Safety Phrases: S 24/25 Avoid contact with skin and eyes. WGK (Water Danger/Protection) CAS# 10101-53-8: 1

Canada

CAS# 10101-53-8 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. CAS# 10101-53-8 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

CAS# 10101-53-8 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 9/02/1997 Revision #6 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility 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 event 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.
