

Section 1. Product and Company Identification

Product Name Chromium Chloride Hexahydrate
CAS Number 10060-12-5

Parchem - fine & specialty chemicals

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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/ Eye Irritation - Category 2B

Specific Target Organ Toxicity (Single Exposure) (Respiratory tract irritation) - Category 3

OSHA/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

Causes skin and eye irritation.

May cause respiratory irritation.

Precautionary Statements

General

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Prevention

Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash hands thoroughly after handling.



Response

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage

Store locked up.

Disposal

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified: None known.

Section 3. Composition / Information on Ingredients

Common Name Chromium Chloride Hexahydrate
CAS Number 10060-12-5

COMPONENT	CAS NUMBER	CONCENTRATION
Chromium Chloride Hexahydrate	10060-12-5	60 - 100%

Section 4. First Aid Measures

Description of Necessary First-Aid Measures

Eye Contact: In case of contact, immediately flush eyes with water for at least 15 minutes, preferably using an eyewash station. Remove any contact lens as soon as practical to do so. Get immediate medical attention if irritation occurs.

Inhalation: Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin Contact: Wash with soap and water for at least 15 minutes. Get immediate medical attention if irritation develops.

Ingestion: Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Causes serious eye irritation

Inhalation: No known significant effects or critical hazards

Skin contact: Causes skin irritation

Ingestion: No known significant effects or critical hazards.



Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain or irritation; watering; redness

Inhalation: No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following: irritation; redness

Ingestion: No known significant effects or critical hazards.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: No specific fire or explosion hazard

Hazardous thermal decomposition products: Decomposition products may include the following materials: Halogenated compounds; metal oxide/oxides

Special protective actions for firefighters: No special measures are required

Special protective equipment for firefighters: Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel: Provide adequate ventilation. Wear appropriate respirator when ventilation is personnel inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Not applicable.



Methods and materials for containment and cleaning up

Spill: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 13 for waste disposal.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene: Normal, good industrial hygiene

Conditions for safe storage, including any incompatibilities: Store in accordance with local regulations. Keep container tightly closed and sealed until ready for use.

Section 8. Exposure Controls / Personal Protection

Control Parameters

Occupational Exposure Limits

Ingredient name	Exposure limits
Chromium chloride (hexahydrate)	ACGIH TLV (United States, 2/2010).TWA: 0.5 mg/m ³ , (measured as Cr) 8 hours. Form: Inorganic OSHA PEL 1989 (United States, 3/1989). TWA: 0.5 mg/m ³ , (as Cr) 8 hours. NIOSH REL (United States, 6/2009). TWA: 0.5 mg/m ³ , (as Cr) 10 hours. OSHA PEL (United States, 6/2010). TWA: 0.5 mg/m ³ , (as Cr) 8 hours.

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls: In some cases, dust collection, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels

Individual protection measures

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety glasses with side-shields conforming to EN166/ ANSI 287 additional eye/face protection may be appropriate.

Skin Protection

Hand Protection: Handle with gloves. Gloves must be inspected prior to use to ensure there are no holes or tears. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of gloves after use in accordance with applicable laws and good industry practices. Wash and dry hands.



Body protection: Wear appropriate clothing such as long sleeves and/or protective coveralls. The type of protective clothing must be selected according to the type, concentration and amount of the substance(s) at the specific workplace.

Other skin protection: Not required under normal conditions of use.

Respiratory protection: For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type P100 (US) or type P3 (EU EN 143) respirator cartridges. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Section 9. Physical and Chemical Properties

Physical State: Solid [Powder]

Color: Not available

Odor: Characteristic

Odor threshold: Not available

pH: Not available

Melting point: Not available

Boiling point: Not available

Flash point: Not available

Evaporation rate: Not available

Flammability (solid, gas): Not available

Lower and upper explosive (flammable) limits: Not available

Vapor pressure: Not available

Vapor density: Not available

Relative density: Not available

Solubility: Not available

Partition coefficient (n-Octanol/water): Not available

Auto-ignition temperature: Not available

Decomposition temperature: Not available

Viscosity: Not available

Section 10. Stability and Reactivity

Reactivity: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should products



Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Chromium chloride (hexahydrate)	LD50 Oral	Rat	1790 mg/kg	-

Irritation/Corrosion: There is no data available.

Sensitization: There is no data available.

Carcinogenicity

Classification

Product/ingredient name	OSHA	IARC	NTP
Chromium chloride (hexahydrate)	-	3	-

Specific target organ toxicity (single exposure)

Name	Category	Route of Exposure	Target Organs
Chromium chloride (hexahydrate)	Category 3	Not applicable	Respiratory tract Irritation

Specific target organ toxicity (repeated exposure): There is no data available.

Aspiration hazard: There is no data available.

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eye Contact: Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.

Skin Contact: Causes skin irritation.

Ingestion: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following: pain or irritation; watering; redness

Inhalation: No known significant effects or critical hazards.

Skin contact: Adverse symptoms may include the following: irritation; redness

Ingestion: No known significant effects or critical hazards.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: No known significant effects or critical hazards.



Potential delayed effects: No known significant effects or critical hazards.

Long term exposure

Potential immediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards.

Potential chronic health effects

General: No known significant effects or critical hazards

Carcinogenicity: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards

Teratogenicity: No known significant effects or critical hazards

Developmental effects: No known significant effects or critical hazards

Fertility effects: No known significant effects or critical hazards

Numerical measures of toxicity

Acute toxicity estimates: There is no data available.

Section 12. Ecological Information

Toxicity: There is no data available.

Persistence and degradability: There is no data available.

Bioaccumulative potential: There is no data available.

Mobility in soil: N/A

Soil/water partition coefficient (Koc): Not available.

Other adverse effects: No known significant effects or critical hazards.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

DOT Classification: Not regulated

IMDG: Not regulated

IATA: Not regulated

Environmental Hazards: No

Additional Information: N/A

Special precautions for user: Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not available



Section 15. Regulatory Information

U.S. Federal Regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: Chromium chloride, hexahydrate

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs): Listed

Clean Air Act Section 602 Class I Substances: Not Listed

Clean Air Act Section 602 Class II Substances: Not listed

DEA List I Chemicals (Precursor Chemicals): Not listed

DEA List II Chemicals (Essential Chemicals): Not listed

SARA 302/304

Composition/information on ingredients: No products were found.

SARA 304 RQ: Not applicable.

SARA 311/312

Classification: Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire Hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) Health hazard
Chromium chloride (hexahydrate)	60 - 100%	No.	No.	No.	Yes.	No.

SARA 313

	Product Name	CAS Number	Percentage
Form R - Reporting requirements	Chromium chloride (hexahydrate)	10060-12-5	60 - 100%
Supplier Notification	Chromium chloride (hexahydrate)	10060-12-5	60 - 100%

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.



State Regulations

Massachusetts: None of the components are listed.

New York: None of the components are listed.

New Jersey: The following components are listed: Chromium chloride, hexahydrate

Pennsylvania: The following components are listed: Chromium chloride, hexahydrate

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient Name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Chromium chloride (Hexahydrate)	Yes	No	No	No

International Regulations

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: All components are listed or exempted.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

Chemical Weapons Convention List Schedule I Chemicals: Not listed

Chemical Weapons Convention List Schedule II Chemicals: Not listed

Chemical Weapons Convention List Schedule III Chemicals: Not listed

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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