



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Chromium Chloride Granular Analytical Reagent Grade

CAS number 10060-12-5

Synonyms Chromic chloride hexahydrate

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC
12501 Pauls Valley Road
Austin, Texas 78737
U.S.A.

Telephone 512-668-9918

Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Corrosive to metals	Category 1
Acute oral toxicity	Category 4
Skin Sensitization	Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard statements

May be corrosive to metals.
Harmful if swallowed.
May cause an allergic skin reaction.

Precautionary statements

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Keep only in original container.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Spills: Absorb spillage to prevent material damage.
Storage: Store in corrosive resistant polypropylene container with a resistant inliner.
Disposal: Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Chromium (III) Chloride Hexahydrate	No information available	10060-12-5	>95%
Chromic Chloride	No information available	10025-73-7	-

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If symptoms persist, call a physician.

If inhaled	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
In case of skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
In case of eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
If swallowed	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic skin reaction. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	CO 2, dry chemical, dry sand, alcohol-resistant foam.
Unsuitable extinguishing media	No information available.

5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition.
Hazardous combustion products: Hydrogen chloride gas.

5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

5.4 Further information

Flash Point	No information available.
Autoignition Temperature	No information available.

Explosion limits

Upper	No data available.
Lower	No data available.
Sensitivity to Mechanical Impact	No information available.

Sensitivity to Static Discharge

No information available.

NFPA

Health	Flammability	Instability	Physical hazards
2	0	1	N/A

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

No information available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Ensure adequate ventilation. Avoid ingestion and inhalation.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities**Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Store under an inert atmosphere. Protect from moisture.

Incompatibilities

No information available.

SECTION 8: Exposure controls/personal protection**8.1 Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Chromium (III) Chloride Hexahydrate	(Vacated) TWA	0.5 mg/m3
Chromic Chloride	(Vacated) TWA	0.5 mg/m3

US. ACGIH Threshold Limit Values

No information available.

US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Chromium (III) Chloride Hexahydrate	IDLH	25 mg/m3
	TWA	0.5 mg/m3
Chromic Chloride	IDLH	25 mg/m3
	TWA	0.5 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment**Eye/face protection**

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

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

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

Control of environmental exposure

No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State	Solid
Appearance	Dark green
Odor	Odorless
Odor Threshold	No information available.
pH	2-3 5% aq.sol
Melting Point/Range	83 °C / 181.4 °F
Boiling Point/Range	No information available.
Evaporation Rate	Not applicable.
Flammability (solid)	No information available.
Flammability or explosive limit	
Upper	No information available.
Lower	No information available.
Vapor Pressure	No information available.
Vapor Density	Not applicable.
Density	No information available.
Solubility	Soluble in water.
Partition coefficient; n-octanol/water	No information available.
Autoignition Temp	No information available.
Decomposition Temp	No information available.
Viscosity	Not applicable.
Molecular Formula	Cl ₃ Cr . 6 H ₂ O
Molecular Weight	266.44
VOC Content(%)	No information available.
Oxidizing properties	No information available.

9.2 Other safety information No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None known, based on information available.

10.2 Chemical stability

Hygroscopic.

10.3 Possibility of hazardous reactions

None under normal processing.
Hazardous polymerization does not occur.

10.4 Conditions to avoid

Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hydrogen chloride gas.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Chromium (III) Chloride Hexahydrate	LD50 = 1790 mg/kg (Rat)	>2000 mg/kg (Rat)	Not listed
Chromic Chloride	LD50 = 440 mg/kg (Rat)	Not listed	31.5 mg/m ³ /2h (Mouse)

Skin corrosion/irritation

May cause sensitization by skin contact.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Chromium (III) Chloride Hexahydrate	10060-12-5	Not listed	Not listed	Not listed	Not listed	Not listed
Chromic Chloride	10025-73-7	Not listed	Not listed	Not listed	Not listed	Not listed

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing. The toxicological properties have not been fully investigated.

SECTION 12: Ecological information**12.1 Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Chromium (III) Chloride Hexahydrate	Not listed	Not listed	Not listed	EC50: 187 mg/L/24h

12.2 Persistence and degradability

Soluble in water Persistence is unlikely based on information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1 Waste Disposal Methods**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN Number UN3260
Proper Shipping name Corrosive solid, acidic, inorganic, n.o.s.
Technical name Chromium (III) Chloride Hexahydrate ,Chromic chloride
Hazard Class 8
Packaging Group III

IMDG

UN Number UN3260
Proper Shipping name Corrosive solid, acidic, inorganic, n.o.s.
Technical name Chromium (III) Chloride Hexahydrate ,Chromic chloride
Hazard Class 8
Packaging Group III

IATA

UN Number UN3260
Proper Shipping name Corrosive solid, acidic, inorganic, n.o.s.
Technical name Chromium (III) Chloride Hexahydrate ,Chromic chloride
Hazard Class 8
Packaging Group III

SECTION 15: Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive
Chromium (III) Chloride Hexahydrate	10060-12-5	-	-
Chromic Chloride	10025-73-7	X	ACTIVE

TSCA 12(b) - Notices of Export: Not Applicable

CERCLA Hazardous Substance List (40 CFR 302.4)

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Component	Hazardous Substances RQs	CERCLA EHS RQs
Chromic Chloride	-	1 lb

SARA 304 Emergency release notification

No information available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not applicable.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

No information available.

SARA 311/312 Hazardous

See section 2 for more information.

SARA 313 (TRI reporting)

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Chromium (III) Chloride Hexahydrate	10060-12-5	>95	1.0
Chromic Chloride	10025-73-7	-	1.0

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Component	CAS-No	HAPS Data
Chromium (III) Chloride Hexahydrate	10060-12-5	X
Chromic Chloride	10025-73-7	X

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

No information available.

Safe Drinking Water Act

Component	CAS-No	CWA - Toxic Pollutants
Chromium (III) Chloride Hexahydrate	10060-12-5	X
Chromic Chloride	10025-73-7	X

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

No information available.

US state regulations

US. Massachusetts RTK - Substance List

Chromic chloride (Cas: 10025-73-7) is listed on the state right to know list.

US. New Jersey Worker and Community Right-to-Know Act

Chromic chloride (Cas: 10025-73-7) is listed on the state right to know list.

Chromium (III) Chloride Hexahydrate (Cas: 10060-12-5) is listed on the state right to know list.

US. Pennsylvania Worker and Community Right-to-Know Law

Chromic chloride (Cas: 10025-73-7) is listed on the state right to know list.

Chromium (III) Chloride Hexahydrate (Cas: 10060-12-5) is listed on the state right to know list.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

SECTION 16: Other information

Date of Issue: 4/8/2022
Revision Date: 7/29/2026

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.