

SAFETY DATA SHEET

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

1.1 Product identifiers

| | |
|--------------|--------------------------|
| Product name | Chromium Sulfate Crystal |
| CAS number | 10101-53-8 |
| Synonyms | Chromic Sulfate |

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)

Acute toxicity, inhalation (Category 4)
Acute toxicity, dermal (Category 4)
Acute toxicity, oral (Category 4)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

H302+H312+H332: Harmful if swallowed, in contact with skin, or if inhaled.
H314: Causes severe skin burns and eye damage.

Precautionary statements

P260: Do not breathe dust.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P304+P302+P316: IF SWALLOWED, INHALED, OR ON SKIN: Get emergency medical help immediately
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364: Take off contaminated clothing and wash it before reuse.
P405: Store locked up.
P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

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

Health hazards not otherwise classified (HHNOC) - Not Known.

Physical hazards not otherwise classified (PHNOC) - Not Known.

SECTION 3: Composition/information on ingredients

3.1 Components

| Chemical name | Common name and synonyms | CAS number | Concentration |
|----------------------------|--------------------------|------------|---------------|
| Chromium sulfate, hydrated | - | 10101-53-8 | 100% |

SECTION 4: First aid measures

4.1 Description of first-aid measures

| | |
|--------------------------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. |
| If inhaled | MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. |
| In case of skin contact | MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. |
| In case of eye contact | MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. |
| If swallowed | MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. |

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use any media suitable for extinguishing supporting fire.

Unsuitable extinguishing media No information available.

5.2 Specific hazards arising from the substance or mixture

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

5.3 Special protective equipment and precautions for firefighters

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

5.4 Further information

Flash Point Data not available

Autoignition Temperature Data not available

Explosion limits

Upper Data not available

Lower Data not available

Sensitivity to Mechanical Impact

Data not available

Sensitivity to Static Discharge

Data not available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

6.2 Environmental precautions

Avoid runoff into storm sewers and ditches which lead to waterways.

6.3 Methods and materials for containment and cleaning up

Recover for reuse if not contaminated. Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a cool, dry, well-ventilated area away from incompatible substances.

Incompatibilities

Strong oxidizers.

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) inorganic compounds, as Cr | TWA | 0.5 mg/m ³ |

US. ACGIH Threshold Limit Values

| Component | Type | Value |
|--|------|-----------------------|
| Chromium(III) inorganic compounds, as Cr | TWA | 0.5 mg/m ³ |

US. NIOSH: Pocket Guide to Chemical Hazards

| Component | Type | Value |
|--|------|-----------|
| Chromium(III) inorganic compounds, as Cr | TWA | 0.5 mg/m3 |

8.2 Exposure controls

Appropriate engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Personal protective equipment

Eye/face protection

Personnel should wear safety glasses, goggles, or faceshield.

Skin protection

Personnel should wear lab coat or apron and appropriate protective gloves.

Body Protection

Personnel should wear lab coat or apron and appropriate protective gloves.

Respiratory protection

None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA approved respirator

Control of environmental exposure

Handle with care and avoid runoff.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---------------------------------|--------------------------|
| Physical State | Solid |
| Appearance | Violet or green crystals |
| Odor | No odor |
| Odor Threshold | Data not available |
| pH | Data not available |
| Melting Point/Range | Loses H2O @ 90°C (194°F) |
| Boiling Point/Range | Decomposes |
| Evaporation Rate | Data not available |
| Flammability (solid) | Data not available |
| Flammability or explosive limit | |
| Upper | Data not available |
| Lower | Data not available |
| Vapor Pressure | Data not available |

| | |
|---|--|
| Vapor Density | Data not available |
| Specific Gravity | 1.7 |
| Solubility | 84-120 g/100 ml water @ 20°C |
| Partition coefficient; n-octanol/water | Data not available |
| Autoignition Temp | Data not available |
| Decomposition Temp | Data not available |
| Viscosity | Data not available |
| Molecular Formula | Cr(SO ₄) ₃ •xH ₂ O |
| Molecular Weight | 392.17+ xH ₂ O |
| VOC Content(%) | Data not available |
| Oxidizing properties | Data not available |

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Low.

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Will not occur.

10.4 Conditions to avoid

Excessive temperatures.

10.5 Incompatible materials

strong oxidizers.

10.6 Hazardous decomposition products

Chromium as fume or dust, sulfur oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

Acute toxicity

Data not available

Skin corrosion/irritation

Data not available

Serious eye damage/eye irritation

Data not available

Respiratory or skin sensitization

Data not available

Germ cell mutagenicity

Data not available

Carcinogenicity

Data not available

Specific target organ toxicity - single exposure

Data not available

Specific target organ toxicity - repeated exposure

Data not available

Reproductive toxicity

Data not available

Chronic effects

Data not available

11.2 Additional Information

Potential health effects:

Inhalation: May be harmful if inhaled.

Ingestion: Nausea and vomiting.

Skin: Contact may cause irritation.

Eyes: May cause mechanical irritation with redness.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC classified: Group 3: Not classifiable as to its carcinogenicity to humans. [Chromium compounds]

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CA Prop 65: WARNING! : This product can expose you to a chemical, Chromium [hexavalent compounds], which is known to the State of California to cause cancer, and reproductive harm.

SECTION 12: Ecological information**12.1 Toxicity**

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bio accumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

SECTION 14: Transport information

DOT (US)

| | |
|----------------------|-------------------------------|
| UN Number | Not applicable |
| Proper Shipping name | Not Regulated |
| Hazard Class | Not applicable |
| Packaging Group | Not applicable |
| Technical name | Chromium(III) Sulfate Hydrate |

IMDG

| | |
|----------------------|-------------------------------|
| UN Number | Not applicable |
| Proper Shipping name | Not Regulated |
| Hazard Class | Not applicable |
| Packaging Group | Not applicable |
| Technical name | Chromium(III) Sulfate Hydrate |

IATA

| | |
|----------------------|-------------------------------|
| UN Number | Not applicable |
| Proper Shipping name | Not Regulated |
| Hazard Class | Not applicable |
| Packaging Group | Not applicable |
| Technical name | Chromium(III) Sulfate Hydrate |

SECTION 15: Regulatory information

US federal regulations

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

Listed

CERCLA Hazardous Substance List (40 CFR 302.4)

Chromic Sulfate Final RQ 1000 lb.

SARA 304 Emergency release notification

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed

SARA 311/312 Hazardous

Not listed

SARA 313 (TRI reporting)

Not listed

Other federal regulations

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

Not listed

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

Not listed

Safe Drinking Water Act

Not listed

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

Not listed

US state regulations

US. Massachusetts RTK - Substance List

Not listed

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

Not listed

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

Not listed

California Proposition 65

WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

SECTION 16: Other information

Date of Issue: 5/22/2025

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.

