

## Material Safety Data Sheet

### Basic Chromium Sulphate

#### Section 1: Chemical Product and Company Identification

Product Name : Basic Chromium Sulphate  
Chemical Formula :  $\text{CrH}_3\text{O}_{12}\text{S}_3$   
Company Identification : Tradeasia International Pte Ltd  
Address : 133 Cecil Street # 12-03 Keck Seng Tower, Singapore  
Tel: +65-6227 6365  
Fax: +65-6225 6286  
Email: [contact@chemtradeasia.com](mailto:contact@chemtradeasia.com)

#### Section 2: Composition and Information on Ingredients

Composition:

Name	CAS#	% by Weight
Basic Chromium Sulphate	10101-53-8	24 - 26

#### Section 3: Hazards Identification

**GHS classification of the substance/mixture:**

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1A

Acute Toxicity - Dermal: Category 4

Acute Toxicity - Inhalation: Category 4

Acute Toxicity - Oral: Category 4

**Hazard Statements:**

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

**Precautionary statement for Prevention:**

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash 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.

**Precautionary statement for Response:**

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

P330 Rinse mouth.

**Precautionary statement for Storage:**

P402 Store in a dry place.

**Section 4: First Aid Measures**

**First aid procedures:**

**Eye contact:** Immediately rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention.

**Skin Contact:** Flush skin thoroughly with water. Get medical attention if irritation develops or persists.

**Inhalation:** Move to fresh air. Get medical attention if any discomfort continues.

**Ingestion:** Rinse mouth thoroughly. Do not induce vomiting without advice from poison control centre. Never give anything by mouth to an unconscious person. If ingestion of a large amount does occur, call a poison control centre immediately.

**Notes to physician:** Treat symptomatically.

**General advice:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**First Aid Facilities:** Maintain eyewash fountain and drench facilities in work area.

## Section 5: Fire and Explosion Data

**Flammable properties:** The product is incombustible. If burnt, due to thermal decomposition, fumes containing sulphur oxide may be given off.

**Extinguishing media:**

**Suitable extinguishing media:** Use water spray to cool fire exposed containers. Use water, dry chemical, chemical foam, alcohol-resistant foam or appropriate foam.

**Unsuitable extinguishing media:** No restrictions known.

**Hazards from Combustion:** Chromium and sulphur oxides.

**Protection of firefighters:**

**Protective equipment and precautions for firefighters:**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

**Firefighting equipment/instructions:**

Firefighters should wear full protective clothing including self-contained breathing apparatus. Move containers from fire area if you can do so without risk. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**Specific methods:**

In the event of fire, cool tanks with water spray. Move container from fire area if it can be done without risk.

## Section 6: Accidental Release Measures

**Personal precautions:** Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

**Environmental precautions:** Do NOT touch or walk through this product in case of spillage or disposal. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud.

Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal.

**Methods for containment:** Collect and dispose of spillage as indicated in Section 13 of the MSDS.

Prevent entry into waterways, sewer, basements or confined areas.

**Methods for cleaning up:** Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

**Other information:** Clean up in accordance with all applicable regulations.

## Section 7: Handling and Storage

### Handling:

Only use in well-ventilated areas. Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing.

### Storage:

Keep container tightly closed and in a cool, well-ventilated place. Store away from strong oxidizing agents.

## Section 8: Exposure Controls/Personal Protection

**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.

### 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 to prevent skin exposure.

**Respiratory protection** When engineering controls are not sufficient to lower exposure levels below the applicable exposure limit, use a NIOSH approved respirator for dusts. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Seek advice from local supervisor.

**General hygiene considerations** Do not breathe dust. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## Section 9: Physical and Chemical Properties

**Appearance** : Dark green

**Odor** : Odorless

**Physical state** : Solid

**Form** : Powder

**pH** : 1.5 - 2.5 (5% solution)

**Melting Point** : Not available

**Boiling point** : Not available

**Specific gravity** : 3

**Solubility (water)** : Soluble

## Section 10: Chemical Stability and Reactivity Data

**Chemical Stability** : Material is stable under normal conditions.

**Conditions to avoid** : Avoid contact with incompatible materials.

**Incompatible materials** : Strong oxidising agents, lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride, chlorine trifluoride.

**Hazardous decomposition products** : Sulfur and chromium oxides.

**Possibility of hazardous reactions** : Hazardous polymerization does not occur.

## Section 11: Toxicological Information

**Ingestion**: Harmful if swallowed. Causes burns to mucous membranes.

**Inhalation**: Harmful by inhalation. Causes irritation and burns to mucous membrane of throat and upper respiratory system. Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

**Skin**: Harmful in contact with skin. Causes skin burns.

**Eye:** Harmful/corrosive to eyes.

**Carcinogenicity:** Not classified as a human carcinogen.

**Chronic Effects:** Repeated or overexposure may lead to dermatitis and ulceration of the skin, conjunctivitis of the eye, vomiting and loss of appetite. Routes of entry via eyes, inhalation and lungs.

**Mutagenicity:** No evidence of mutagenic properties.

## Section 12: Ecological Information

**Eco toxicity:** Not available for the product.

**Environmental effects:** Slightly toxic to aquatic life.

**Persistence and degradability:** No data available.

**Bioaccumulation / Accumulation:** No data available.

**Mobility in environmental media:** No data available.

## Section 13: Disposal Considerations

**Waste codes:**

Not regulated.

**Disposal instructions:**

Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Dispose of this material and its container to hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies.

**Waste from residues / unused products:**

Dispose of in accordance with local regulations.

**Contaminated packaging:**

Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## Section 14: Transport Information

**DOT:** Not regulated as dangerous goods for transport.

**IATA:** Not regulated as dangerous goods for transport.

**IMDG:** Not regulated as dangerous goods for transport.

**TDG:** Not regulated as dangerous goods for transport.

## Section 15: Other 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

**Recommended use:** Not available

**Other Special Considerations:** Not available

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 Tradeasia International Pte. Ltd. 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 Tradeasia International Pte. Ltd. has been advised of the possibility of such damages.

