

# Safety Data Sheet CHROMIUM (III) SULFATE BASIC

SDS no. 1CEKEG3X • Version 1.0 • Date of issue: 2024-03-07

#### **SECTION 1: Identification**

#### **GHS Product identifier**

Product name CHROMIUM (III) SULFATE BASIC

Other means of identification

CHROMIUM (III) SULFATE BASIC LR CL376 CHROMIUM (III) SULFATE BASIC TG CT376

Basic chromic sulfate
Basic chromium sulfate
Monobasic chromium sulfate

Chromedol Chromosal B

Chromium hydroxide sulfate Chromium sulfate basic

Chrometan

## Recommended use of the chemical and restrictions on use

Laboratory and Analytical Reagent

## Supplier's details

Name ChemSupply Australia Pty Ltd

Address 38-50 Bedford Street

5013 Gillman South Australia

Australia

Telephone 08 8440 2000

email www.chemsupply.com.au

**Emergency phone number** 

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

# **SECTION 2: Hazard identification**

#### **General hazard statement**

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

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#### Classification of the substance or mixture

#### GHS classification in accordance with: UN GHS revision 7

- Acute toxicity, dermal, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Acute toxicity, oral, Cat. 4
- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1B

## GHS label elements, including precautionary statements

## **Pictograms**



Signal word Danger

Hazard statement(s)

H302 Harmful if swallowed
H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage

H332 Harmful if inhaled

**Precautionary statement(s)** 

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/physcian if you feel unwell,

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

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

water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep 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/doctor/physcian P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container to an approved waste disposal facility

# **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

[00] Information on Composition: Assay of Cr2 03 > 25.5%

## **Components**

Component	CAS no.	Concentration
CHROMIUM(III) SULFATE HYDRATE	15244-38-9	100 - 100 % (weight)
OLAGOIFICATIONIC A. L. L. C. L. A. C. L. A. C. L. C. L		4D 11474DD0 11000

CLASSIFICATIONS: Acute toxicity, dermal, Cat. 4; Acute toxicity, inhalation, Cat. 4; Acute toxicity, oral, Cat. 4; Skin corrosion/irritation, Cat. 1B. HAZARDS: H302 - Larmful if swallowed; H312 - Harmful in contact with skin; H314 - Causes severe skin burns and eye damage; H332 - Harmful if inhaled.

#### **SECTION 4: First-aid measures**

#### **Description of necessary first-aid measures**

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

If inhaled Remove victim to fresh air. Employ artificial respiration if indicated. Seek medical

attention.

In case of skin contact Wash affected areas with copious quantities of water immediately. Remove

contaminated clothing and wash before re-use. Seek medical attention.

In case of eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to

be held open. Seek medical attention.

If swallowed Rinse mouth thoroughly with water immediately. Do NOT induce vomiting. Keep at rest.

Seek immediate medical attention.

## Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 131 126) or a doctor at once.

## **SECTION 5: Fire-fighting measures**

#### Suitable extinguishing media

Use water spray to cool fire exposed containers. Use water, dry chemical, chemical foam, alcohol-resistant foam or appropriate foam

### Specific hazards arising from the chemical

Hazards from Combustion Products: Chromium and sulfur oxides.

## Special protective actions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

#### **SECTION 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

Do NOT touch or walk through this product. 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. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms. Evacuate the area of all non-essential personnel.

Wear protective clothing specified for normal operations (see Section 8)

### Methods and materials for containment and cleaning up

Do NOT touch or walk through this product. 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.

## **SECTION 7: Handling and storage**

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#### **Precautions for safe handling**

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

### Conditions for safe storage, including any incompatibilities

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

# **SECTION 8: Exposure controls/personal protection**

#### **Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### Individual protection measures, such as personal protective equipment (PPE)

#### **Eye/face protection**

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

## Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Hand Protection: Ensure hand protection complies with AS 2161, Occupational protective gloves - Selection, use and maintenance.

### **Body protection**

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

### **Respiratory protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

# **SECTION 9: Physical and chemical properties**

## **Basic physical and chemical properties**

Physical state Solid

Appearance Finely granular dark-green flakes or powder.

Color No data available.

Odor Odourless

Odor threshold No data available.

Melting point/freezing point

No data available.

Boiling point or initial boiling point and boiling range

No data available.

Flammability

No data available.

Lower and upper explosion limit/flammability limit

No data available.

No data available.

Explosive properties No data available.

Auto-ignition temperature No data available.

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# **CHROMIUM (III) SULFATE BASIC**

Decomposition temperature

Oxidizing properties

nН

Kinematic viscosity

Solubility

Partition coefficient n-octanol/water (log value)

Vapor pressure Evaporation rate

Density and/or relative density

Relative vapor density Particle characteristics

Supplemental information regarding physical hazard classes

No data available.

**Further safety characteristics (supplemental)** 

No data available.

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No data available. No data available.

pH (5% solution) 1.5 - 2.5

No data available.

Solubility in Water: Soluble. Solubility in Organic Solvents:

Partially soluble in methanol.

No data available. No data available. No data available. Specific Gravity: 3 No data available. No data available.

# **SECTION 10: Stability and reactivity**

## Reactivity

Stable under normal conditions of storage and handling.

### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

#### **Conditions to avoid**

Avoid storing in direct sunlight and avoid extremes of temperature.

#### Incompatible materials

Strong oxidising agents, lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride, chlorine trifluoride.

## **Hazardous decomposition products**

Sulfur and chromium oxides.

## **SECTION 11: Toxicological information**

## Information on toxicological effects

#### **Acute toxicity**

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 corrosion/irritation

Harmful in contact with skin. Causes skin burns.

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### Serious eye damage/irritation

Harmful/corrosive to eyes.

### Respiratory or skin sensitization

No data available.

## **Germ cell mutagenicity**

No data available.

## Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

## Summary of evaluation of the CMR properties

No data available.

## Specific target organ toxicity (STOT) - single exposure

No data available.

## Specific target organ toxicity (STOT) - repeated exposure

No data available.

# **Aspiration hazard**

No data available.

## **Additional information**

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

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CHROMIUM(III) SULFATE HYDRATE: ROUTE OF EXPOSURE

Skin Contact: Causes burns.

Skin Absorption: Harmful if absorbed through skin.

Eye Contact: Causes burns.

Inhalation: Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Harmful if

inhaled.

Ingestion: Harmful if swallowed.
SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

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## **Toxicity**

No data available.

### Persistence and degradability

No data available.

## **Bioaccumulative potential**

No data available.

# Mobility in soil

No mobility data available for this product.

## Results of PBT and vPvB assessment

No data available.

# **Endocrine disrupting properties**

No data available.

#### Other adverse effects

No data available.

# **SECTION 13: Disposal considerations**

## **Disposal methods**

## **Product disposal**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

## Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

# **SECTION 14: Transport information**

## **ADG (Road and Rail)**

UN Number: 3260

Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (CHROMIUM (III) SULFATE BASIC)

# Hazchem emergency action code (EAC)

2X

## **IMDG**

UN Number: 3260

Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (CHROMIUM (III) SULFATE BASIC)

#### IATA

UN Number: 3260

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# **SECTION 15: Regulatory information**

Safety, health and environmental regulations specific for the product in question

Australia SUSMP Poison Schedule: NS

## **SECTION 16: Other information**

#### Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

#### **Preparation information**

All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. ChemSupply Australia Pty Ltd accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.

Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airbourne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)