

# Safety Data Sheet POTASSIUM CHROMATE

SDS no. JEG6Z3GM • Version 1.0 • Date of issue: 2024-07-07

### **SECTION 1: Identification**

# **GHS Product identifier**

Product name POTASSIUM CHROMATE

Other means of identification

Name Product Code

POTASSIUM CHROMATE LR PL019

Chromic acid, dipotassium salt, Chromic acid, potassium salt, Potassium chromate (VI)

# Recommended use of the chemical and restrictions on use

Analytical reagent, laboratory reagent, aniline black, textile mordant, enamels, inks and chromate pigments.

# 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**

Dangerous Goods of Class 6 (Toxic and Infectious Substances) are incompatible in a placard load with any of the following: Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids; and are incompatible with food and food packaging in any quantity.

### Classification of the substance or mixture

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

- Acute toxicity, inhalation, Cat. 2

# **Safety Data Sheet** POTASSIUM CHROMATE

- Acute toxicity, oral, Cat. 3
- Acute toxicity, dermal, Cat. 4 - Carcinogenicity, Cat. 1B
- Serious eye damage/eye irritation, Cat. 1
- Germ cell mutagenicity, Cat. 1
- Respiratory sensitizer, Cat. 1
- Skin corrosion/irritation, Cat. 1B
- Skin sensitizer, Cat. 1
- Specific target organ toxicity following repeated exposure, Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1
- Hazardous to the aquatic environment, short-term (acute), Cat. 1

# GHS label elements, including precautionary statements

# **Pictograms**



#### Signal word **Danger**

### Hazard statement(s)

H301 Toxic if swallowed

H312 Harmful in contact with skin

H314 Causes severe skin burns and eye damage H317 May cause an allergic skin reaction

Fatal if inhaled H330

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 May cause respiratory irritation H340 May cause genetic defects

H350 May cause cancer

H372 Causes damage to organs through prolonged or repeated exposure

H410 Very toxic to aquatic life with long lasting effects

# **Precautionary statement(s)**

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physcian

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor/physcian P342+P311

P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

# Safety Data Sheet POTASSIUM CHROMATE

SDS no. JEG6Z3GM • Version 1.0 • Date of issue: 2024-07-07

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

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

### **Mixtures**

Molecular weight: 194.2

#### Components

Co	omponent	CAS no.	Concentration
Po	tassium chromate (EC no.: 232-140-5; Index no.: 024-006-00-8)	7789-00-6	100 % (weight)

CLASSIFICATIONS: Carcinogenicity, Cat. 1B; Germ cell mutagenicity, Cat. 1B; Specific target organ toxicity following single exposure, Cat. 3; Skin corrosion/irritation, Cat. 2; Serious eye damage/eye irritation, Cat. 2A; Skin sensitizer, Cat. 1; Hazardous to the aquatic environment, short-term (acute), Cat. 1; Hazardous to the aquatic environment, long-term (chronic), Cat. 1. HAZARDS: H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H340 - May cause genetic defects [route]; H350i - ; H400 - Very toxic to aquatic life; H410 - Very toxic to aquatic life with long lasting effects. [SCLs/M-factors/ATEs]: Skin Sens. 1; H317: C ≥ 0,5 %

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

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

General advice	For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New	
Ocheral auvice	TUL AUVIGE, GUITAGLA EUISUHS IHIUHHAUUH GEHIE 16.U. DHUHE AUSHAHA 15-11-20. NEW	

Zealand 0800 764 766) or a doctor (at once).

First Aid Facilities: Maintain eyewash fountain in work area.

If inhaled If inhaled, remove from contaminated area to fresh air immediately. Apply artificial

respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

In case of skin contact Immediately remove contaminated clothing and wash affected area with water for at

least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical

advice /attention depending on the severity.

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

be held open. In all cases of eye contamination it is a sensible precaution to seek

medical adv

If swallowed Rinse mouth thoroughly with water immediately, repeat until all traces of product have

been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

### 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, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

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

# Suitable extinguishing media

Small fire: Use dry chemical, CO2 or water spray.

If safe to do so, move undamaged containers from the fire area.

Large fire: Use water spray, fog or foam - Do NOT use water jets.

Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

### Specific hazards arising from the chemical

Hazards from Combustion Products: May librate toxic fumes in fire (release of oxygen upon decomposition).

Material does not burn. Fire or heat will produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways.

### Special protective actions for fire-fighters

Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

#### SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

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. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Cover with plastic sheet to minimize spreading. Absorb with earth, sand or other non-combustible material and transfer to container.

# **SECTION 7: Handling and storage**

### **Precautions for safe handling**

Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wash hands and face thoroughly after working with material. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid exposure - obtain special instructions before use.

### Conditions for safe storage, including any incompatibilities

Store away from oxidizing agents, incompatibles, direct sunlight, heat and sources of ignition. Keep container tightly closed and in a cool, well-ventilated place Store away from combustible materials.

# **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**

[34] 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 Yellow crystals.
Color No data available.
Odor Odourless.

Odor threshold No data available.

Melting point/freezing point 971 °C

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.

Flash point

No data available.

Explosive properties

Auto-ignition temperature

No data available.

Decomposition temperature

No data available.

Oxidizing properties

No data available.

No data available.

pH 8.6 - 9.8 (50 g/l, H20, 20 °C)

Kinematic viscosity

No data available.

Solubility in Water: Soluble (630 g/L @ 20 °C) Solubility in

Organic Solvents: Insoluble in alcohol.

Partition coefficient n-octanol/water (log value)

Vapor pressure

No data available.

No data available.

Evaporation rate

No data available.

Evaporation rate

No data available.

Specific Gravity: 2.73

Relative vapor density

6.7 q/l

Relative vapor density 6.7 g/l
Particle characteristics No data available.

# Supplemental information regarding physical hazard classes

No data available.

# **Further safety characteristics (supplemental)**

No data available.

# **SECTION 10: Stability and reactivity**

### Reactivity

Stable under normal conditions of storage and handling.

# **Chemical stability**

# Safety Data Sheet POTASSIUM CHROMATE

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Hazardous Polymerization: Will not occur.

# **Conditions to avoid**

Incompatibles

#### Incompatible materials

Organic or other readily oxidisable material (paper, wood, sulfur, aluminium or plastic), finely powdered metals, strong oxidizing agents, reducing agents, hydrazine and derivatives, chlorates, phosphides, sulfides and flammable materials.

### **Hazardous decomposition products**

Potassium and chrome oxides.

# **SECTION 11: Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Ingestion: Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to coma and death. Lethal dose for man is 0.5 g. Symptoms may include sore throat, severe gastrointestinal pain, vomiting, diarrhea, violent gastroenteritis, peripheral vascular collapse, dizziness, intense thirst, muscle cramps, shock, coma, abnormal bleeding, fever, liver damage and acute renal failure.

Inhalation: Corrosive. Extremely destructive to tissues of the mucous membranes and upper respiratory tract leading to irritation, burns and inflammation. Symptoms may include sore throat, coughing, shortness of breath and labored breathing. May produce pulmonary sensitization or allergic asthma. May cause burns, ulceration and perforation of the nasal septum. Since the healing proces of ulcers is poor, chromium substances penetration into the wound. Higher exposures may cause pulmary edema.

### Skin corrosion/irritation

Corrosive. Symptoms of redness, pain, irritation and severe burns can occur. May cause nausea and vomiting. Irritating to skin. Can be absorbed through cuts and abrasions causing ulcers (chrome sores), which may cause systemic poisoning, affecting kidney and liver functions. May cause sensitisation by skin contact.

### Serious eye damage/irritation

Corrosive. Irritating to eyes. May cause blurred vision, redness, pain and severe tissue burns. May cause corneal injury, conjunctivitis, ulceration, or blindness.

### Respiratory or skin sensitization

Respiratory sensitisation: Sensitization - Respiratory: Category 1

Skin Sensitisation: Skin Corrosion/Irritation: Category 1

# **Germ cell mutagenicity**

Germ cell mutagenicity: Germ Cell Mutagenicity: Category 1B

#### Carcinogenicity

Carcinogenicity: Category 1A - Safe Work Australia.

Chromium [VI] compounds - evaluated as a group - have been listed in the IARC Monographs as Group 1: Carcinogenic to humans.

### Reproductive toxicity

Toxic to Reproduction: Category 1

# Safety Data Sheet POTASSIUM CHROMATE

# Specific target organ toxicity (STOT) - single exposure

No data available.

# Specific target organ toxicity (STOT) - repeated exposure

Specific target organ toxicity - Repeated Exposure Category 1

# **Aspiration hazard**

No data available.

# **Additional information**

No data available.

# **SECTION 12: Ecological information**

### **Toxicity**

Acute Toxicity - Daphnia: EC50 (Daphnia magna) 15 mg/l/48h.

# **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: 3288 Class: 6.1 Packing Group: II

Proper Shipping Name: TOXIC SOLID, INORGANIC, N.O.S. (Contains Potassium Chromate)

# Hazchem emergency action code (EAC)

2X

### **IMDG**

UN Number: 3288

Class: 6.1 Packing Group: II

Proper Shipping Name: TOXIC SOLID, INORGANIC, N.O.S. (Contains Potassium Chromate)

# IATA

UN Number: 3288 Class: 6.1 Packing Group: II

Proper Shipping Name: TOXIC SOLID, INORGANIC, N.O.S. (Contains Potassium Chromate)

# **SECTION 15: Regulatory information**

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

Australia SUSMP Poison Schedule: S6

# **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)