



## Safety Data Sheet

Date of Issue: 15.07.2024

Date of Expiry: 15.07.2029

### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Company Name** : ECP Limited  
**Address** : PO Box 34125, Birkenhead, Auckland 0746  
**Telephone** : +64 9 480 4386  
**Facsimile** : +64 9 480 4385  
**Emergency phone number** : 0800 243 622 (24 hours)

|                     |                           |
|---------------------|---------------------------|
| <b>Product Name</b> | <b>Potassium Chromate</b> |
| <b>Product Code</b> | 41801                     |
| <b>CAS No.</b>      | 7789-00-6                 |

**Recommended use** : Laboratory Investigations

### 2: Hazard's identification

#### 2.1 GHS Classification

Skin irritation (Category A)  
Eye irritation (Category A)  
Skin sensitization (Category B)  
Germ cell mutagenicity (Category A)  
Carcinogenicity, Inhalation (Category A)  
Acute toxicity (Category E), Respiratory system.  
Aquatic toxicity (Acute or Chronic) (Category A).

#### 2.2 GHS Label elements, including precautionary statements

##### Pictogram



**Signal Word** : **Danger**

##### Hazard statement(s)

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.  
H350 May cause cancer by inhalation.  
H410 Very toxic to aquatic life with long lasting effects.

##### Precautionary statement(s)

###### Prevention

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
P264 Wash skin thoroughly after handling.

- P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

### **Response**

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
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.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P321 Specific treatment (see supplemental first aid instructions on this label).  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P391 Collect spillage.

### **Storage**

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### **Disposal**

- P501 Dispose of contents/ container to an approved waste disposal plant. Restricted to professional users.

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

### **3.1. Substances**

|                |   |                    |
|----------------|---|--------------------|
| Substance type | : | Mono-constituent   |
| Name           | : | POTASSIUM CHROMATE |
| CAS-No.        | : | 7789-00-6          |
| EC-No.         | : | 232-140-5          |
| EC Index-No.   | : | 024-006-00-8       |

## **4: First aid measures**

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

#### **General advice**

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

#### **If inhaled**

After inhalation: fresh air. Call in physician.

#### **In case of skin contact**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

#### **In case of eye contact**

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### **If swallowed**

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

### **4.2 Most important symptoms and effects, both acute and delayed**

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

#### **4.3 Indication of any immediate medical attention and special treatment needed**

No data available

### **5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

For this substance/mixture no limitations of extinguishing agents are given.

#### **5.2 Special hazards arising from the substance or mixture**

Potassium oxides

Chromium oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

#### **5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

#### **5.4 Further information**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Advice for non-emergency personnel: Avoid generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

#### **6.2 Environmental precautions**

Do not let product enter drains.

#### **6.3 Methods and materials for containment and cleaning up**

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### **6.4 Reference to other sections**

For disposal see section 13.

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

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

##### **Advice on safe handling**

Work under hood. Do not inhale substance/mixture.

##### **Hygiene measures**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage conditions

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

### Storage class

Storage class (TRGS 510): 6.1D: Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Ingredients with workplace control parameters

| Component          | CAS No.   | Value   | Control parameters        | Basis  |
|--------------------|-----------|---|---------------------------|--|
| Potassium Chromate | 7789-00-6 | WES-TWA   | 0.00002 mg/m <sup>3</sup> | New Zealand. Workplace Exposure Standards for Atmospheric Contaminants |
|                    | Remarks   | Confirmed carcinogen<br>Skin sensitizer<br>Respiratory sensitizer<br>Exposure can also be estimated by biological monitoring<br>Skin absorption |                           |  |
|                    |           | WES-STEL  | 0.0005 mg/m <sup>3</sup>  | New Zealand. Workplace Exposure Standards for Atmospheric Contaminants |
|                    |           | Confirmed carcinogen<br>Skin sensitizer<br>Respiratory sensitizer<br>Exposure can also be estimated by biological monitoring<br>Skin absorption |                           |  |

#### Biological occupational exposure limits

| Component          | CAS No.   | Parameters                      | Value   | Biological Specimen | Basis                                    |
|--------------------|-----------|---------------------------------|---------|---------------------|--|
| Potassium Chromate | 7789-00-6 | chromium                        | 10 µg/l | Urine               | New Zealand. Biological Exposure Indices |
|                    | Remarks   | End of 8 hour Exposure          |         |                     |  |
|                    |           | Chromium                        | 25 µg/l | Urine               | New Zealand. Biological Exposure Indices |
|                    | Remarks   | End of shift at end of workweek |         |                     |  |

### 8.2 Exposure controls

#### Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

### **Environmental exposure controls:**

Avoid release to the environment.

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

### **9.1. Information on basic physical and chemical properties**

|  |   |                                       |
|--|---|---------------------------------------|
| Physical state                                     | : | Solid                                 |
| Appearance   | : | Crystalline powder.                   |
| Molecular mass                                     | : | 194.19 g/mol                          |
| Colour   | : | Lemon yellow.                         |
| Odour  | : | Odourless.                            |
| Odour threshold                                    | : | No data available                     |
| pH   | : | 8.6 – 9.8 at 50 g/l at 20°C           |
| Relative evaporation rate<br>(butylacetate=1)      | : | No data available                     |
| Melting point                                      | : | 971 °C                                |
| Freezing point                                     | : | Not applicable                        |
| Boiling point                                      | : | 1000 °C                               |
| Flash point  | : | Not applicable                        |
| Auto-ignition temperature                          | : | Not applicable                        |
| Decomposition temperature                          | : | No data available                     |
| Flammability (solid, gas)                          | : | Non flammable.                        |
| Vapour pressure                                    | : | No data available                     |
| Relative vapour density at 20 °C                   | : | 6.7                                   |
| Relative density                                   | : | No data available                     |
| Density  | : | 2.73 g/cm <sup>3</sup>                |
| Solubility   | : | Water: 69.9 g/100ml at 20°C - Soluble |
| Partition coefficient n-octanol/water<br>(Log Pow) | : | No data available                     |
| Viscosity, kinematic                               | : | Not applicable                        |
| Viscosity, dynamic                                 | : | No data available                     |
| Explosive properties                               | : | No data available                     |
| Oxidising properties                               | : | No data available                     |
| Explosive limits                                   | : | Not applicable                        |

## 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Direct sunlight. Air contact. Moisture.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11: Toxicological information

### 11.1. Information on toxicological effects

|                                    |   |   |
|------------------------------------|---|---|
| Acute toxicity (oral)              | : | Not classified  |
| Acute toxicity (dermal)            | : | Not classified  |
| Acute toxicity (inhalation)        | : | Not classified  |
| Skin corrosion/irritation          | : | Causes skin irritation.   |
| pH                                 | : | 8.6 – 9.8 at 50 g/l at 20°C                                       |
| Serious eye damage/irritation:     |   | Causes serious eye irritation.<br>pH: 8.6 – 9.8 at 50 g/l at 20°C |
| Respiratory or skin sensitisation: |   | May cause an allergic skin reaction.                              |
| Germ cell mutagenicity             | : | May cause genetic defects.  |
| Carcinogenicity                    | : | May cause cancer by inhalation.                                   |
| Reproductive toxicity              | : | Not classified  |
| STOT-single exposure               | : | May cause respiratory irritation.                                 |
| STOT-repeated exposure             | : | Not classified  |
| Aspiration hazard                  | : | Not classified  |

## 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Ecology - water : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term(acute)  
: Not classified

Hazardous to the aquatic environment, long-term (chronic)  
: Very toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

## 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods:

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations:

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

## 14: Transport Information Table

|      |   | <b>ADR/RID –<br/>European<br/>packaging<br/>certification</b> | <b>IMDG<br/>International<br/>Maritime<br/>Dangerous<br/>Goods Code</b> | <b>IATA – DGR<br/>International Air<br/>Travel<br/>Association –<br/>Dangerous Goods<br/>Regulations</b> |
|------|---|---|---|--|
| 14.1 | <b>UN Number</b>                            | 3288  | 3288  | 3288   |
| 14.2 | <b>UN Proper<br/>Shipping name</b>          | TOXIC SOLID,<br>INORGANIC,<br>N.O.S                           | TOXIC SOLID,<br>INORGANIC,<br>N.O.S                                     | Toxic solid,<br>inorganic, n.o.s.  |
| 14.3 | <b>Transport<br/>Hazard Class</b>           | 6.1   | 6.1   | 6.1  |
| 14.4 | <b>Packaging group</b>                      | III   | III   | III  |
| 14.5 | <b>Environmental<br/>Hazards</b>            | Yes   | yes   | yes  |
| 14.6 | <b>Special<br/>precautions for<br/>user</b> |   |   |  |

## 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulatory information

HSNO Approval Code: HSR004649

Tracking Required: not required

Approved Handler Cert.: not required

## 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone

using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company 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 the company has been advised of the possibility of such damages.

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