

Infosafe No™ 1CH6A	Issue Date : October 2021	RE-ISSUED by CHEMSUPP
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Product Name **SODIUM CHROMATE**

Classified as hazardous

## 1. Identification

**GHS Product Identifier** SODIUM CHROMATE

**Company Name** CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

**Address** 38 - 50 Bedford Street GILLMAN  
SA 5013 Australia

**Telephone/Fax Number** Tel: (08) 8440-2000

**Emergency phone number** CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

**E-mail Address** www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use** Protection of iron against corrosion, paint pigment, wood preservative, inks, dyeing, leather tanning, other chromates and laboratory reagent.

<b>Other Names</b>	<u><b>Name</b></u>	<u><b>Product Code</b></u>
	Chromic acid, disodium salt	
	Disodium chromate	
	SODIUM CHROMATE LR	SL088

### Other Information

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.

## 2. Hazard Identification

**GHS classification of the substance/mixture** Hazardous to the Aquatic Environment - Acute Hazard: Category 1  
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1  
Carcinogenicity: Category 1  
Acute Toxicity - Dermal: Category 4  
Eye Damage/Irritation: Category 1  
Germ Cell Mutagenicity: Category 1  
Acute Toxicity - Inhalation: Category 2  
Acute Toxicity - Oral: Category 3  
Specific target organ toxicity - Repeated Exposure Category 1  
Skin Corrosion/Irritation: Category 1A  
Sensitization - Skin: Category 1  
Toxic to Reproduction: Category 1  
Sensitization - Respiratory: Category 1

**Signal Word (s)** 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.  
H330 Fatal if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H340 May cause genetic defects.  
H350 May cause cancer ....  
H360 May damage fertility or the unborn child.  
H372 Causes damage to organs through prolonged or repeated exposure.

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**Pictogram (s)**

 H410 Very toxic to aquatic life with long lasting effects.  
Skull and crossbones, Health hazard, Corrosion, Environment

**Precautionary statement – Prevention**

 P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P284 Wear respiratory protection.  
P273 Avoid release to the environment.

**Precautionary statement – Response**

 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P363 Wash contaminated clothing before reuse.  
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P310 Immediately call a POISON CENTER or doctor/physician.  
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.

**Precautionary statement – Storage**

 P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Sodium Chromate	7775-11-3	100 %

### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discolouration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.
<b>Skin</b>	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical attention in severe cases.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek immediate medical assistance.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

### 5. Fire-fighting measures

<b>Hazards from Combustion Products</b>	Toxic fumes of chromium oxides and sodium oxide, chrome oxides, oxygen, sodium hydroxide and carbon oxides.
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<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from 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 fire is out. Avoid getting water inside containers.
<b>Specific hazards arising from the chemical</b>	Material does not burn. Fire or heat will produce irritating, toxic, and/or corrosive gases. Runoff may pollute waterways.
<b>Hazchem Code</b>	2X
<b>Precautions in connection with Fire</b>	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.

## 6. Accidental release measures

<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation of dust/vapour/spray mist. Avoid prolonged or repeated exposure. Avoid dust generation and accumulation. Work in a safety cupboard. Open and handle container with care. Use only in a well-ventilated area. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Under no circumstances eat, drink or smoke while handling this material. Wear special protective equipment for maintenance break-in or where exposures may exceed established exposure levels. Wash thoroughly hands, face, forearms and neck after handling. Remove contaminated clothing and wash before reuse. Discard contaminated shoes. Shower, dispose of outer clothing, change to clean garments at the end of the day. Do NOT take working clothes home. Avoid cross-contamination of street clothes. Inform laundry personnel of contaminant's hazards. Rinse contaminated clothes (fire hazard) with plenty of water. Keep container dry. Never add water to this product. Keep away from heat and all sources of ignition. Keep away from incompatibles such as combustible materials, organic materials. Protect from physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product. Keep out of reach of children. For laboratory use only.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a tightly closed container, in a cool, dry, well-ventilated area away from incompatible substances. Keep well closed and protected from direct sunlight and moisture. Hygroscopic. Oxidiser. Do not store near, nor allow contact with clothing and other combustible material. Store away from reducing substances, food and feedstuffs. Protect from physical damage. Store away from sources of heat and all sources of ignition. Do not store on wooden floors. Store in an area without drain or sewer access. Toxic materials should be stored in a separate locked storage cabinet or room. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
<b>Corrosiveness</b>	Corrosive because of oxidizing potency.
<b>Storage Regulations</b>	Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.
<b>Storage Temperatures</b>	Store at room temperature (15 to 25 °C recommended).
<b>Unsuitable Materials</b>	Organic materials.

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## 8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
	Sodium Chromate			0.05		Chromium (VI) Compounds (as Cr)
<b>Other Exposure Information</b>	<p>These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity. A time weighted average (TWA) has been established for Chromium (VI) compounds (as Cr), water soluble (Safe Work Australia) of 0.05 mg/m<sup>3</sup>. The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. Known to act as a sensitiser. - Safe Work Australia.</p> <p>Sensitiser notice: Some substances can cause a specific immune response in some people. Such substances are called sensitisers and the development of a specific immune response is termed 'sensitisation'. Exposure to a sensitiser, once sensitisation has occurred, may manifest itself as a skin rash or inflammation or as an asthmatic condition, and in some individuals this reaction can be extremely severe. - Worksafe Australia.</p>					
<b>Appropriate engineering controls</b>	<p>Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods.</p>					
<b>Respiratory Protection</b>	<p>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.</p>					
<b>Eye Protection</b>	<p>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.</p>					
<b>Hand Protection</b>	<p>Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.</p>					
<b>Personal Protective Equipment</b>	<p>Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.</p>					
<b>Body Protection</b>	<p>Flame retardant antistatic protective clothing. 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.</p>					
<b>Hygiene Measures</b>	<p>Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.</p>					

## 9. Physical and chemical properties

**Form**      Solid

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<b>Appearance</b>	Yellow crystals.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	792 °C
<b>Boiling Point</b>	Decomposes
<b>Solubility in Water</b>	Very soluble (873 g/l @ 30 °C).
<b>Solubility in Organic Solvents</b>	Slightly soluble in ethyl alcohol, methyl alcohol.
<b>Specific Gravity</b>	2.723 @ 25 °C
<b>pH</b>	8.5 - 10 (50 g/l, 20 °C)
<b>Volatile Component</b>	0 %vol @ 21 °C
<b>Flammability</b>	Not combustible but assists combustion of other substances.
<b>Explosion Properties</b>	Contact with oxidizable substances may cause extremely violent combustion. Hydrazine is decomposed explosively by chromates.
<b>Molecular Weight</b>	161.97
<b>Oxidising Properties</b>	Substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Releases oxygen, upon decomposition, which enhances combustion.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Heat, high temperatures, unclosed container, combustibles, dust generation, incompatibles.
<b>Incompatible Materials</b>	Reducing agents, any combustible, flammable and organic, or readily oxidizable material (paper, wood, sulfur, aluminium, oils, greases, plastics), acids, glycerol, boron, acetic acid anhydride, hydrazine and its derivatives, organic solvents.
<b>Hazardous Decomposition Products</b>	Toxic fumes of chromium oxides and sodium oxide, chrome oxides, oxygen, sodium hydroxide and carbon oxides.
<b>Possibility of hazardous reactions</b>	Can react explosively in contact with acetic anhydride or hydrazine. Can react violently in contact with combustible material, especially in presence of acid. Reactive with organic materials. Reacts with reducing materials.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 Oral - Rat - 52 mg/kg
<b>Acute Toxicity - Inhalation</b>	LC50 Inhalation - Rat - 4 h - 100 mg/m3
<b>Ingestion</b>	Toxic. Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. May cause perforation, ulceration and haemorrhaging of the digestive tract. Leads to severe pain in the gastrointestinal tract. Can cause burning sensation, sore throat, nausea, vomiting, abdominal pain, diarrhoea. May cause violent gastroenteritis, peripheral vascular collapse, dizziness, intense thirst, muscle cramps, shock, coma, collapse, abnormal bleeding, fever, liver damage and acute renal failure.
<b>Inhalation</b>	Highly toxic. Corrosive. Extremely destructive and causes irritation and burns to tissues of the mucous membranes and upper respiratory tract. May cause ulceration and perforation of the nasal septum if inhaled in excessive quantities. Symptoms may include burning sensation, sore throat, coughing, wheezing, shortness of breath, and labored breathing. May produce pulmonary sensitization or allergic asthma. Higher exposures may cause pulmonary oedema.
<b>Skin</b>	Corrosive. Symptoms of redness, pain, and severe burn can occur. Dusts and strong solutions may cause severe irritation. May be absorbed through the skin. Contact with broken skin may cause deep, penetrating ulcers (chrome

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	sores) of the skin and absorption, which may cause systemic poisoning, affecting kidney and liver functions. Poor tendency of ulcers to heal following penetration of substance into the wound. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
<b>Eye</b>	Corrosive. Contact can cause blurred vision, redness, pain, severe irritation and severe deep tissue burns. May cause corneal injury or blindness.
<b>Respiratory sensitisation</b>	Respiratory sensitisation (Category 1) H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>Skin Sensitisation</b>	Skin sensitisation (Category 1) H317 May cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	Germ cell mutagenicity (Category 1B) H340 May cause genetic defects.
<b>Carcinogenicity</b>	Chromium[VI] is evaluated in the IARC Monographs (Vol. 49; 1990) as Group 1: Carcinogenic to humans. Carcinogenicity (Category 1B) H350 May cause cancer.
<b>Reproductive Toxicity</b>	Reproductive toxicity (Category 1B) H360 May damage fertility or the unborn child.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Specific target organ toxicity - repeated exposure (Category 1) H372 Causes damage to organs through prolonged or repeated exposure.
<b>Chronic Effects</b>	Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause sensitization dermatitis and possible destruction and/or ulceration. Prolonged or repeated exposure may lead to asthma, respiratory irritation and perforation of the nasal septum. Prolonged or repeated contact may cause skin necrosis and/or ulceration of the skin. Ulcerations at first may be painless, but may penetrate to the bone producing 'chrome holes.' May cause cancer in humans. May cause mutagenic effects. Chronic exposure may cause liver and kidney damage.
<b>Serious eye damage/irritation</b>	Eye damage/irritation (Category 1) H314 Causes severe skin burns and eye damage.
<b>Mutagenicity</b>	R46(2) Mutagen Category 2, Toxic - May cause heritable genetic damage - SAfe Work Aust. Listed as a mutagen, category 2 in List of Designated Hazardous Substances, - NOHSC. Substances that should be regarded as if they are mutagenic to man. There is sufficient evidence to provide a strong presumption that human exposure to the substance may result in the development of heritable genetic damage, generally on the basis of: • appropriate animal studies, • other relevant information.
<b>Skin corrosion/irritation</b>	Skin corrosion/irritation (Category 1) H314 Causes severe skin burns and eye damage.

## 12. Ecological information

<b>Ecological Information</b>	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 H410 Very toxic to aquatic life with long lasting effects.
<b>Environmental Protection</b>	Do not allow to enter waters, waste water, or soil!
<b>Acute Toxicity - Fish</b>	The following applies to chromium ions in general: LC50 (Pimephales promelas): 17.6 mg/l/96h.
<b>Acute Toxicity - Daphnia</b>	The following applies to chromium ions in general: EC50 (Daphnia magna): 0.021 mg/l/48h.

## 13. Disposal considerations

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**Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

## 14. Transport information

**Transport Information** 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.

**U.N. Number** 3288

**UN proper shipping name** TOXIC SOLID, INORGANIC, N.O.S.

**Transport hazard class(es)** 6.1

**Hazchem Code** 2X

**Packing Group** II

**IERG Number** 34

**Environmental Hazards** Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

## 15. Regulatory information

**Regulatory Information** All the constituents of this product are listed on the Australian Inventory of Chemical Substances ( AICS ), or exempted. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

**Poisons Schedule** S6

## 16. Other Information

**Literature References** '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 for the Preparation of Safety Data Sheets for Hazardous Chemicals'.  
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand.  
Safe Work Australia, 'Hazardous Chemical Information System'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.

**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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**Empirical Formula & Structural Formula** Na<sub>2</sub>CrO<sub>4</sub>

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