



Infosafe No™	1CH6B	Issue Date : January 2019	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM DICHROMATE Dihydrate**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	SODIUM DICHROMATE Dihydrate	
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
<b>Recommended use of the chemical and restrictions on use</b>	Adhesive, binding agents; algaecide to protect against slime forming bacteria and yeasts in brewery processing water and brewery warmer water; bleaching fats, oils, sponges, resins; colorimetry (copper determination); colouring agents (for glass, e.g., green bottle glass); complexing agent; corrosive inhibitors (in metal coatings and circulating cooling water systems and in corrosion inhibiting paints); in electric batteries; electroengraving of copper; electrolyte in electrolytic cell production of sodium chlorate; electroplating agents; explosives; fixing agents; fungicide (wood preservative); for hardening gelatin; impregnation agents; industrial water treatment; chemical intermediates for catalysts, leather tanning agents, e.g., chromic sulfate, chromium lignosulfonates for drilling muds; manufacture of chromic acid, other chromates and chrome pigments; laboratory chemicals; leather processing industry; mordant; metal extraction, refining and processing of metals; oxidation inhibitor in ethyl ether; oxidizing agents in manufacture of dyes, many other synthetic organic chemicals, inks; paints, lacquers and varnishes industry; paper, pulp and board industry; photographic industry; refining petroleum; stabilizers; textile processing industry; viscosity adjusters.	
<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	SODIUM DICHROMATE Dihydrate LR Sodium bichromate	SL086

**Other Information**

Chem-Supply 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 Chem-Supply 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 Chem-Supply 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**

<b>GHS classification of the substance/mixture</b>	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 Germ Cell Mutagenicity: Category 1 Acute Toxicity - Inhalation: Category 2 Oxidizing Solids: Category 2 Acute Toxicity - Oral: Category 3 Specific Target Organ Toxicity - Repeated Exposure Category 1 Sensitization - Respiratory: Category 1 Skin Corrosion/Irritation: Category 1B Sensitization - Skin: Category 1 Toxic to Reproduction: Category 1
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H272 May intensify fire; oxidiser. 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.



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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.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

**Pictogram (s)****Precautionary statement – Prevention**

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
P220 Keep/Store away from clothing/.../combustible materials.  
P221 Take any precaution to avoid mixing with combustibles.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
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.

**Precautionary statement – Response**

P285 In case of inadequate ventilation wear respiratory protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P330 Rinse mouth.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P362 Take off contaminated clothing and wash 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.  
P370+P378 In case of fire: Use dry chemical, CO2 or water spray for extinction.  
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 plant.

**Precautionary statement – Storage**  
**Precautionary statement – Disposal****3. Composition/information on ingredients**

Chemical Characterization	Ingredients				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
Solid	Sodium dichromate dihydrate	7789-12-0	100 %		

**4. First-aid measures**

**Inhalation** If inhaled, remove from contaminated area to fresh air immediately. If breathing is difficult, give oxygen. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.

**Ingestion** Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

**Skin** 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.

**Eye contact** If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical assistance.



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<b>First Aid Facilities</b>	Maintain eyewash station, safety shower and normal washroom facilities.
<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>	Irritating, corrosive, toxic and/or flammable fumes or gases including chromium oxide, disodium oxide and oxygen.
<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. Small fire: Use dry chemical, CO <sub>2</sub> or water spray. 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. Contact with combustible or organic material may cause fire. Fire or heat will produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways.
<b>Hazchem Code</b>	2W
<b>Decomposition Temp.</b>	>400 °C (Temperature of fusion: Partly liquefies at 84.6 °C giving solid anhydrous form and saturated solution. All water (2 water) lost by 140 °C. Anhydrous form fuses at 356.7 °C.)
<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>Spills &amp; Disposal</b>	Do not touch or walk through spilled material. 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 or confined areas. Cover with plastic sheet to prevent spreading.
<b>Personal Precautions</b>	Avoid inhalation and ingestion. Avoid contact with skin, eyes and clothing. Evacuate the area of all non-essential personnel.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Do not use rags, sawdust or other combustible absorbents to wipe up spilled material. 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. Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.
<b>Environmental Precautions</b>	Prevent from entering into drains, ditches or rivers.

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	Avoid ingestion and inhalation of dust. Avoid contact with skin, eyes, or clothing. Avoid prolonged or repeated exposure. Minimize dust generation and accumulation. Use only in a chemical fume hood. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Wear appropriate protective equipment. Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use. Under no circumstances eat, drink or smoke while handling this material. Ensure a high level of personal hygiene is maintained when using this product. Keep away from incompatibles such as combustible materials, organic materials, acids, alkalies and reducing agents.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in tightly closed, labelled containers, in a cool, dry, well-ventilated area, away from incompatible materials. Separate from acids, alkalies, reducing agents and combustible, organic or other readily oxidizable materials, food and feedstuffs. Avoid storage on wood floors. Have appropriate fire extinguishers available in and near the storage area. Protect against physical damage, direct sunlight and moisture.
<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).

**8. Exposure controls/personal protection**



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Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium dichromate dihydrate			0.05		Chromium (VI) compounds (as Cr), water soluble
<b>Other Exposure Information</b>	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. Note: Known to act as a sensitiser. - Safe Work Australia. 'Sen' notice - sensitiser. The substance can cause a specific immune response in some people. An affected individual may subsequently react to minute levels of that substance.					
<b>Appropriate engineering controls</b>	In industrial situations 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.					
<b>Respiratory Protection</b>	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.					
<b>Eye Protection</b>	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.					
<b>Hand Protection</b>	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.					
<b>Personal Protective Equipment</b>	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					
<b>Body Protection</b>	Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.					
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.					

**9. Physical and chemical properties**

<b>Form</b>	Solid
<b>Appearance</b>	Orange to red-orange deliquescent crystals, crystalline solid or granules.
<b>Odour</b>	Odourless.
<b>Decomposition Temperature</b>	>400 °C (Temperature of fusion: Partly liquefies at 84.6 °C giving solid anhydrous form and saturated solution. All water (2 water) lost by 140 °C. Anhydrous form fuses at 356.7 °C.)
<b>Melting Point</b>	91 °C.
<b>Boiling Point</b>	400 °C (decomposes).
<b>Solubility in Water</b>	Soluble in water (180 g/100 ml (20 °C), 433 g/100 ml (98 °C)).
<b>Solubility in Organic Solvents</b>	Insoluble in alcohol.
<b>Specific Gravity</b>	2.52 (Water = 1) @ 20 °C; 2.348 @ 25 °C.
<b>pH</b>	Solutions are acidic, pH of 1% solution 4.0 and pH of 10% solution 3.5.
<b>Vapour Pressure</b>	0 mm Hg @ 20 °C.
<b>Vapour Density (Air=1)</b>	10.
<b>Volatile Component</b>	0 %vol @ 21 °C
<b>Flammability</b>	Not combustible, but concentrated material is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition.



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<b>Explosion Properties</b>	Risk of a violent oxidation reaction with organic materials and other oxidizable materials (especially in strongly acidic solutions). Risk of fire and explosion on contact with combustible substances, or reducing agents, or when shocked, or if exposed to heat, flame, or friction. Also may act as initiation source for dust or vapour explosions. Violent reaction or ignition with boron + silicon (pyrotechnic); organic residues + sulfuric acid; 2-propanol + sulfuric acid; sulfuric acid + trinitrotoluene. Potentially explosive reaction with acetic anhydride; ethanol + sulfuric acid + heat; hydrazine.
<b>Molecular Weight</b>	298.00
<b>Oxidising Properties</b>	The aqueous solution is a mild oxidizing agent; however in strongly acidic solution, there is a risk of a violent oxidation reaction with organic materials and other oxidizable materials.
<b>Other Information</b>	Index of Refraction: 1.661, 1.699, 1.751.

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable under ordinary conditions of use and storage.
<b>Conditions to Avoid</b>	Extremes of temperature, heat, direct sunlight, dust generation, combustible materials, organic materials, moisture and incompatible materials.
<b>Incompatible Materials</b>	Reducing agents, combustible, organic or other readily oxidizable material (paper, wood, sulfur, aluminium or plastics) especially in the presence of strong acid solutions, oxidizing agents, anhydrides, acetic anhydride, hydrazine and derivatives, hydroxylamine, water, sulfides/water, glycerol, boron, alcohols, ethanol, 2-propanol, metals in powder form, iron, magnesium, trinitrotoluene, acids, nitric acid, conc. sulfuric acid, hydrochloric acid, strong bases, oils and silicon.
<b>Hazardous Decomposition Products</b>	Irritating, corrosive, toxic and/or flammable fumes or gases including chromium oxide, disodium oxide and oxygen.
<b>Possibility of hazardous reactions</b>	May react with readily oxidisable materials, flammable substances, reducing agents, combustible materials, organic materials, metals, especially at elevated temperatures. Potentially explosive reaction with acetic anhydride; ethanol + sulfuric acid + heat; hydrazine. Violent reaction or ignition with boron + silicon (pyrotechnic); organic residues + sulfuric acid; 2-propanol + sulfuric acid; sulfuric acid + trinitrotoluene.
<b>Hazardous Polymerization</b>	Will not occur.

**11. Toxicological Information**

<b>Acute Toxicity - Oral</b>	LD50 (rat): 51 mg/kg (both sexes).
<b>Ingestion</b>	Toxic if swallowed. May cause severe gastrointestinal tract irritation and possible burns with burning sensation, sore throat, nausea, vomiting, abdominal pain, diarrhoea, shock or collapse. It is absorbed via the gastrointestinal tract. Severe symptoms in the gastrointestinal tract may include severe burns of the mouth, throat, and stomach, violent gastroenteritis, epigastric pain (inflammation and ulceration of the gastrointestinal tract), bloody diarrhoea, vomiting (aspiration pneumonia!), abnormal bleeding, dizziness, intense thirst, muscle cramps, formation of methaemoglobin, nephritis, oliguria, liver damage and acute renal failure, fever, shock, spasms, peripheral vascular collapse, circulatory collapse, unconsciousness, coma, and possible death. Other symptoms of exposure include erosion and discolouration of the teeth. May cause cancers of the stomach. Lethal dose (man): 0.5 g.
<b>Inhalation</b>	Very toxic by inhalation. It is absorbed via the lungs. Dusts or mists are highly irritating and possibly corrosive to the nose, nasal septum, throat, bronchial tubes, respiratory tract and lungs. Symptoms may include burning sensation, sore throat, coughing, wheezing, laryngitis, shortness of breath, laboured breathing, headache, nausea, and vomiting. Inhalation of dusts may cause ulceration and perforation of the nasal septum if inhaled in large quantities, or if exposed chronically. Higher exposures may be fatal as a result of spasm, inflammation, oedema of the larynx and bronchi, chemical pneumonitis and pulmonary oedema. May cause liver and kidney damage. May produce pulmonary sensitization, allergic asthma or allergic respiratory reaction. Causes cancer of the lungs, nasal cavity, sinuses and larynx by inhalation.
<b>Skin</b>	Harmful in contact with skin. Dusts and strong solutions may cause severe irritation and possible severe skin burns. Symptoms may include redness, pain and chrome sores, ulcers caused by contact with broken skin, with poor tendency for ulcers to heal following penetration of substance into the wound. Harmful if absorbed through the skin. Absorption may cause systemic poisoning, affecting kidney and liver functions. May cause skin sensitization in some individuals, an allergic reaction, which becomes evident upon re-exposure to this material.
<b>Eye</b>	Dusts and mists may cause severe irritation, and possible severe deep eye burns. Contact can cause blurred vision, redness, stinging, blurring, tearing, severe pain and possible permanent corneal damage or blindness. Risk of serious damage to eyes.





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<b>Carcinogenicity</b>	Chromium[VI] is evaluated in the IARC Monographs (Vol. 49; 1990) as Group 1: Carcinogenic to humans. May causes cancer - Cat. 1A (H350) - Safe Work Australia
<b>Reproductive Toxicity</b>	May damage fertility or the unborn child - Cat. 1B (H360) May damage fertility or the unborn child - Cat. 1B (H360) - Safe Work Australia
<b>Chronic Effects</b>	Repeated or prolonged ingestion may cause gastrointestinal irritation with vomiting and diarrhoea, kidney and liver damage and damage to the heart. Repeated or prolonged exposure can cause ulceration and perforation of the nasal septum, respiratory irritation, and ulceration of the skin. Ulcerations at first may be painless, but may penetrate to the bone producing 'chrome holes.' Prolonged or repeated inhalation may cause asthma-like allergy. Future exposures can cause asthma attacks with shortness of breath, wheezing, cough, and/or chest tightness. Prolonged or repeated skin contact may cause blisters, possible destruction and/or ulceration, and may cause skin sensitization, an allergic reaction. May cause cancer by inhalation.
<b>Serious eye damage/irritation</b>	Causes severe skin burns and eye damage - Cat. 1 (H314) - Safe Work Australia.
<b>Mutagenicity</b>	May cause genetic defects - Cat. 1B (H340) Safe Work Australia.

**12. Ecological information**

<b>Ecotoxicity</b>	Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
<b>Persistence and degradability</b>	Methods for the determination of biodegradability are not applicable to inorganic substances.
<b>Environmental Protection</b>	Do not allow to enter waters, waste water, or soil!

**13. Disposal considerations**

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	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.
<b>U.N. Number</b>	3086
<b>UN proper shipping name</b>	TOXIC SOLID, OXIDIZING, N.O.S. - (Sodium Dichromate)
<b>Transport hazard class(es)</b>	6.1
<b>Sub.Risk</b>	5.1
<b>Hazchem Code</b>	2W
<b>Packaging Method</b>	3.8.6.1
<b>Packing Group</b>	II
<b>EPG Number</b>	6A6
<b>IERG Number</b>	31

**15. Regulatory information**

<b>Regulatory Information</b>	Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
<b>Poisons Schedule</b>	S6
<b>Hazard Category</b>	Very Toxic,Irritant,Dangerous for the environment

**16. Other Information**

<b>Literature References</b>	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.
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# Safety Data Sheet

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Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Chemical Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.

**Contact**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

**Person/Point**

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**Empirical Formula & Structural Formula**

Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>·2H<sub>2</sub>O.

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