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## SAFETY DATA SHEET

### SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier SODIUM DICHROMATE DIHYDRATE		Product Use Laboratory use	
Chemical formula Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> ·2H <sub>2</sub> O		Product code SR-0135; ST-0935; ST-9935	Molar weight 298
Chemical name / Commercial name / Synonymous SODIUM DICHROMATE DIHYDRATE, DICHROMATE DE SODIUM (VI), DICHROMATE DE SOUDE, CHROMIC ACID DISODIUM SALT, CHROMIUM SODIUM OXIDE			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
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Emergency phone	CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 11/28/2022	SDS Prepared by Laboratoire MAT	E-Mail labmat@labmat.com	

## SECTION 02 - HAZARDS IDENTIFICATION

<b>Classification WHIMS / GHS</b>	<p>Oxidizing solids category 2</p> <p>Acute toxicity - Dermal category 4</p> <p>Skin corrosion/irritation - Skin corrosion category 1B</p> <p>Respiratory or skin sensitization - Respiratory sensitizer category 1</p> <p>Germ cell mutagenicity category 1A</p> <p>Carcinogenicity category 1B</p> <p>Reproductive toxicity category 1B</p> <p>Specific Target Organ Toxicity - Repeated exposure category 1</p> <p>Acute toxicity - Inhalation category 2</p> <p>Acute toxicity - Oral category 3</p> <p>Respiratory or skin sensitization - Skin sensitize category 1</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p>
<b>Signal Word</b>	<p>DANGER</p>
<b>Hazards statements (H)</b>	<p>H272 May intensify fire; oxidiser.</p> <p>H312 Harmful in contact with skin.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H340 May cause genetic defects.</p> <p>H350 May cause cancer.</p> <p>H360 May damage fertility or the unborn child.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure.</p> <p>H330 Fatal if inhaled.</p> <p>H301 Toxic if swallowed.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p>
<b>Precautionary statements (P)</b>	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</p> <p>P220 Keep/Store away from clothing and combustible materials.</p> <p>P260 Do not breathe dust / fume / gas / mist / vapors / spray.</p> <p>P261 Avoid breathing dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do no eat, drink or smoke when using this product.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 Wear respiratory protection.</p> <p>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</p> <p>P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P370 + P378 In case of fire: Use water spray or alcohol-resistant foam, or dry powder or carbon</p>

	<p>dioxide for extinction.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P320 Specific treatment is urgent (see section 4 on this SDS on this label).</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p>
<b>PICTOGRAMS</b>	
<b>Other dangers</b>	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	<p><b>Health</b> 3</p> <p><b>Fire</b> 1</p> <p><b>Reactivity</b> 2</p> <p><b>Special danger</b> OX</p>

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Dichromate de sodium	7789-12-0	<=100

## SECTION 04 - FIRST AID MEASURES

<b>Eye contact</b>	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
<b>Skin contact</b>	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	If breathing is difficult, give oxygen. If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>Ingestion</b>	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
<b>Most important symptoms and effects (acute and delayed)</b>	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Nausea and vomiting. Skin sensitizer. Sneezing. Runny nose. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	In case of medical consultation, keep this sheet available.
<b>General advice</b>	Show this safety data sheet to the doctor in attendance.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Flammability</b>	No
<b>Ignition conditions</b>	Risk of fire or explosion if heated or milled in the presence of combustible or organic products.
<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Data not available.
<b>Hazardous combustion products</b>	Hazardous combustion products formed under fire conditions: - Sodium oxides, Chromium oxides
<b>Special fire and explosion hazards</b>	Powerful oxidizer Sodium dichromate may react violently or explode on contact with sulfuric acid + ethanol + heat, sulfuric acid + organic residues, sulfuric acid + 2-propanol, sulfuric acid + trinitrotoluene, alcohols, acetic anhydride, boron + silicon, hydrazine and its hydrates. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Methods and materials for containment and cleaning up / Personal precautions, protective equipment</b>	Evacuate personnel to safe areas. Cover the residues with sodium carbonate or calcium oxide to neutralize the product. Avoid dust formation. Avoid breathing dust. Dilute residues with water, clean and rinse. Ensure a good ventilation of the premises. When handling, wear appropriate safety equipment. Use a respirator as needed. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains.
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## SECTION 07 - HANDLING AND STORAGE

<b>Conditions for safe storage</b>	Deliquescent. Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, combustible and organic products. Avoid storing on a wooden floor. Keep container tightly closed in a dry and well-ventilated place.
<b>Methods of handling</b>	Bottle in the glass preferably. Avoid ingestion and inhalation. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. Avoid contact with the skin, eyes and clothes. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

Components	CAS-No.	Value	Control parameters	Basis
Sodium dichromate dihydrate	7789-12-0			Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	0.050000 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Confirmed Human Carcinogen (means that the agent is carcinogenic to humans)			
		TWAEV	0.050000 mg/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	A substance which may not be recirculated in accordance with section 108 A substance to which exposure must be reduced to a minimum in accordance with section 42 Sensitizer Carcinogenic effect detected in humans			
		TWA	0.025000 mg/m3	Canada. British Columbia OEL
	IARC '1' applies to substances categorized as carcinogenic to humans, and used when there is sufficient evidence of carcinogenicity in humans. ACGIH 'A1' applies to those substances confirmed as human carcinogens based on the weight of evidence from epidemiological studies			
		C	0.100000 mg/m3	Canada. British Columbia OEL
	IARC '1' applies to substances categorized as carcinogenic to humans, and used when there is sufficient evidence of carcinogenicity in humans. ACGIH 'A1' applies to those substances confirmed as human carcinogens based on the weight of evidence from epidemiological studies			
	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)			
		TWA	0.05 mg/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
	Confirmed Human Carcinogen (means that the agent is carcinogenic to humans)			
		TWAEV	0.05 mg/m3	Québec. Regulation respecting occupational health

				and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	A substance which may not be recirculated in accordance with section 108			
	A substance to which exposure must be reduced to a minimum in accordance with section 42 Sensitizer Carcinogenic effect detected in humans			
		TWA	0.025 mg/m <sup>3</sup>	Canada. British Columbia OEL
	IARC '1' applies to substances categorized as carcinogenic to humans, and used when there is sufficient evidence of carcinogenicity in humans. ACGIH 'A1' applies to those substances confirmed as human carcinogens based on the weight of evidence from epidemiological studies			
		C	0.1 mg/m <sup>3</sup>	Canada. British Columbia OEL
	IARC '1' applies to substances categorized as carcinogenic to humans, and used when there is sufficient evidence of carcinogenicity in humans. ACGIH 'A1' applies to those substances confirmed as human carcinogens based on the weight of evidence from epidemiological studies			
		TWA	0.050000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.05 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)

<b>Data source</b>	Sigma-Aldrich (Millipore Sigma)
<b>Ventilation</b>	Use fan.
<b>Respiratory</b>	If work under the hood is not possible, or if the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
<b>Gloves</b>	Handle with gloves.
<b>Eyes</b>	Safety goggles with safety shutters.
<b>Shoes</b>	Safety shoes.
<b>Clothing</b>	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Engineering control</b>	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Solid.
<b>Appearance</b>	Solide orange brun.
<b>Odour</b>	Inodore.
<b>Odour threshold</b>	Data not available
<b>pH</b>	Solution aqueuse 1% = pH 4.0 Solution aqueuse 10% = pH 3.5.
<b>Melting point / Freezing point</b>	357°C
<b>Initial boiling point</b>	400°C (dec)
<b>Boiling range</b>	Data not available
<b>Flash point</b>	Data not available
<b>Evaporation rate</b>	Data not available
<b>Flammability</b>	No
<b>Lower flammable / Explosive limit</b>	Data not available
<b>Upper flammable / Explosive limit</b>	Data not available
<b>Vapour pressure</b>	Data not available
<b>Vapour density</b>	Data not available
<b>Relative density</b>	2.35g/cm <sup>3</sup>
<b>Solubility</b>	187 g/100 g d'eau à 25 °C.
<b>Partition coefficient water/n-octanol</b>	Data not available
<b>Auto-ignition temperature</b>	Data not available
<b>Decomposition temperature</b>	400°C
<b>Viscosity</b>	Data not available

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Oxidizer: risk of fire in case of contact with combustible / organic substance. May react violently with incompatible substances.
<b>Chemical stability</b>	Hygroscopic.
<b>Possibility of hazardous reactions</b>	Oxidizer. May react violently with incompatible substances.
<b>Conditions of instability (Including sensitivity to shock / static discharge / vibration)</b>	Avoid moisture and excessive heat. Avoid contact with incompatible materials.
<b>Incompatible material</b>	Organic materials, acids, water, strong bases, acid anhydrides, metals, reducing agents, metallic powders, strong reducing agents, combustible material. Alcohols.
<b>Hazardous decomposition products</b>	Hazardous decomposition products formed under fire conditions. - Sodium oxides, Chromium oxides

## SECTION 11 - TOXICOLOGICAL INFORMATION

## SODIUM DICHROMATE DIHYDRATE

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eyes.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
<b>- Eyes</b>	Severe irritation and may result in inflammation of the conjunctiva.
<b>- Skin</b>	Irritation and dermatitis. Exposed areas of the skin, including the fingers, the back of the hand and the forearms may present small ulcerations ("chrome sori").
<b>- Inhalation</b>	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, pharyngitis, headache, dizziness, fever, sweating, salivation, nausea and vomiting.
<b>Acute toxicity (Ingestion)</b>	Severe irritation of the digestive tract. Dysphagia, abdominal pain, haemorrhagic enteritis, cramps, diarrhea, melena, intense thirst, nausea and vomiting, tubular nephritis and possible hepatotoxicity, convulsions, circulatory collapse, unconsciousness, coma and can lead to death.
<b>Chronic exposure effects / symptoms</b>	Burning sensation, dermatitis, conjunctivitis, skin reactions (chromium sori), liver and kidney damage, chest pain, cough, dyspnoea, laryngitis, pharyngitis, headache, dizziness, ulceration and perforation of the nasal septum, discoloration teeth, metallic taste in the mouth, fatigue, digestive disorders (inflammation and ulceration of the gastrointestinal tract), weight loss and loss of appetite, convulsions, nausea and vomiting. Prolonged exposure to this product is likely to cause cancer.
<b>DL50 (specify species and route of entry)</b>	Data based on the anhydrous product: LD50 Oral - Rat - 67 mg/kg. LD50 Dermal - Rabbit - 2000 mg/kg.
<b>CL50 (specify species and route of entry)</b>	Data based on the anhydrous product: LC50 Inhalation - Rat - 4h - 83 - 99 mg/m <sup>3</sup> .

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Data not available.
<b>Persistence and degradability</b>	Data not available.
<b>Bioaccumulative potential</b>	Data not available.
<b>Mobility in soil</b>	Data not available.
<b>Other adverse effects</b>	Very toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
<b>Contaminated Packaging</b>	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

<b>UN Number</b>	3087
<b>UN Proper shipping name</b>	SOLIDE COMBURANT, TOXIQUE N.S.A.(Dichromate de sodium)
<b>Transport hazard class(es)</b>	5.1 Oxidizing substances 6.1 Toxic substances
<b>Packing group</b>	I
<b>Limited quantity index</b>	0kg
<b>ERAP Index</b>	1000
<b>Special precautions</b>	16



## SECTION 15 - REGULATORY INFORMATION

<b>WHIMS CANADA</b>	Oxidizing solids category 2 Acute toxicity - Dermal category 4 Skin corrosion/irritation - Skin corrosion category 1B Respiratory or skin sensitization - Respiratory sensitizer category 1 Germ cell mutagenicity category 1A Carcinogenicity category 1B Reproductive toxicity category 1B Specific Target Organ Toxicity - Repeated exposure category 1 Acute toxicity - Inhalation category 2 Acute toxicity - Oral category 3 Respiratory or skin sensitization - Skin sensitize category 1 Serious eye damage/eye irritation - Serious eye damage category 1
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## SECTION 16 - OTHER INFORMATION

### Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

Last Update: 11/28/2022