

## SAFETY DATA SHEET

# POTASSIUM DICHROMATE

### SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

<b>1.1 Product identifier:</b>	
<b>CAS Number:</b>	7778-50-9
<b>EC number:</b>	231-906-6
<b>1.2 SYNONYMS:</b>	<ul style="list-style-type: none"><li>• Dipotassium dichromate</li><li>• Chromic acid, dipotassium salt</li></ul>

### SECTION 2: Hazards identification:

<b>2.1 Classification of the substance or mixture:</b>	Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation.
<b>2.2 Label elements:</b>	Labelling according to Regulation (EC) No 1272/2008 Oxidizing solids, (Category 2) Acute toxicity, oral (Category 3) Acute toxicity, inhalation (Category 3) Acute toxicity, dermal (Category 4) Skin corrosion, (Category 1B) Serious eye damage, (Category 1) Respiratory sensitisation, (Category 1) Skin sensitisation, (Category 1) Germ cell mutagenicity, (Category 1B) Carcinogenicity, (Category 1B) Reproductive toxicity, (Category 1B) Specific target organ toxicity - single exposure, Respiratory system (Category 3) Specific target organ toxicity - repeated exposure, Cardio-vascular system (Category 1) Short-term (acute) aquatic hazard, (Category 1) Long-term (chronic) aquatic hazard, (Category 1)

<p><b>Hazard Pictograms:</b></p>	
<p><b>Signal Word:</b></p>	<p>Danger</p>
<p><b>Hazard statements:</b></p>	<p><b>H272:</b> May intensify fire; oxidizer.  <b>H301:</b> Toxic if swallowed.  <b>H312:</b> Harmful in contact with skin.  <b>H314:</b> Causes severe skin burns and eye damage.  <b>H317:</b> May cause an allergic skin reaction.  <b>H330:</b> Fatal if inhaled.  <b>H334:</b> May cause allergy or asthma symptoms or breathing difficulties if inhaled.  <b>H335:</b> May cause respiratory irritation.  <b>H340:</b> May cause genetic defects.  <b>H350:</b> May cause cancer.  <b>H360FD:</b> May damage fertility. May damage the unborn child.  <b>H372:</b> Causes damage to organs (Cardio-vascular system) through prolonged or repeated exposure if inhaled.  <b>H410:</b> Very toxic to aquatic life with long lasting effects.</p>
<p><b>Precautionary Statements:</b></p>	<p><b>P210:</b> Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  <b>P261:</b> Avoid breathing dust.  <b>P264:</b> Wash skin thoroughly after handling.  <b>P280:</b> Wear protective gloves/protective clothing/eye protection/face protection.</p>

	<p><b>P273:</b> Avoid release to the environment.</p> <p><b>P303+P361+P353:</b> IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p><b>P305+P351+P338:</b> IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.</p> <p><b>P301+P312:</b> IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.</p> <p><b>P404:</b> Store in a closed container.</p> <p><b>P501:</b> Dispose of contents/ container to an approved waste disposal plant.</p>
<b>2.3 Other hazards:</b>	
<b>Inhalation:</b>	can cause severe respiratory irritation, coughing, shortness of breath, lung damage, and long-term risk of asthma or lung cancer.
<b>Ingestion:</b>	can cause severe abdominal pain, vomiting, diarrhea, kidney and liver damage, and can be potentially fatal.
<b>Skin Contact:</b>	can cause severe irritation, burns, allergic reactions, and may lead to dermatitis or ulceration.
<b>Eye contact:</b>	can cause severe irritation, redness, pain, and may result in permanent eye damage or blindness.
<b>Chronic Exposure:</b>	can lead to respiratory sensitization, skin allergies, ulceration, kidney and liver damage, and an increased risk of lung and nasal cancers.
<b>Aggravation of pre-existing conditions:</b>	can aggravate pre-existing respiratory conditions (like asthma), skin disorders, and kidney or liver diseases.

### SECTION 3: Composition/information on ingredients

<b>3.1 Chemical characterisation:</b>	Substances
<b>CAS No:</b>	Description: 7778-50-9 POTASSIUM DICHROMATE
<b>Identification number(s):</b>	EC number: 231-906-6

### SECTION 4: First aid measures

<b>4.1 Description of first aid measures</b>	
<b>General information:</b>	
<b>After inhalation:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>After skin contact:</b>	Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician.
<b>After eye contact:</b>	Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician.
<b>After swallowing:</b>	Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician.
<b>4.2 Most important symptoms and effects, both acute and delayed:</b>	Acute and delayed exposure can cause severe irritation or burns to the skin, eyes, and respiratory tract, gastrointestinal distress, organ damage, allergic reactions, and long-term risks including respiratory disease and cancer.
<b>4.3 Indication of any immediate medical attention and special treatment needed:</b>	Treat symptomatically.

## SECTION 5: Firefighting measures

<b>5.1 Extinguishing media:</b>	Water, Carbon dioxide dry chemical, alcohol resistant foam.
<b>5.2 Special hazards arising from the substance or mixture:</b>	Chromium oxides
<b>5.3 Advice for firefighters:</b>	Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety.
<b>5.4 further information:</b>	no data available

## SECTION 6: Accidental release measures

<b>6.1 Personal precautions, protective equipment and emergency procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention.
<b>6.2 Environmental precautions:</b>	Do not enter this chemical into drains.
<b>6.3 Methods and material for containment and cleaning up:</b>	Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling:</b>	For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material
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	Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation.
<b>7.2 Conditions for safe storage, including any incompatibilities:</b>	Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area.
<b>Requirements to be met by storerooms and receptacles:</b>	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
<b>7.3 Specific end uses:</b>	no data available

## SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	
<b>Additional information about design of technical facilities:</b>	A system of local and general exhaust is recommended.
<b>8.2 Exposure controls</b>	
<b>Appropriate engineering controls</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Personal protective equipment:</b>	Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc.
<b>General protective and hygienic measures:</b>	Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment.
	<b>Respiratory protection:</b> Required.
<b>Protection of hands:</b>	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. Wash and dry hands.
	<b>Eye protection:</b> Required
<b>Protection of Body:</b>	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing.

## SECTION 9: Physical and chemical properties

<b>9.1 Information on basic physical and chemical properties</b> <b>General Information</b>	
<b>Appearance: Form:</b>	Crystalline Powder/granules
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>pH-value:</b>	5
<b>Melting point/Melting range:</b>	398°C
<b>Boiling point/Boiling range:</b>	Not determined
<b>Flammability (solid, gaseous):</b>	Non-flammable
<b>Ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	398°C
<b>Self-igniting:</b>	None
<b>Flash point:</b>	No data available
<b>Danger of explosion:</b>	None
<b>Explosion limits: Lower:</b>	No data available
<b>Explosion limits: Upper:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Density at 20 °C:</b>	2.67 g/cm <sup>3</sup>
<b>Relative density:</b>	2.67
<b>Vapour density:</b>	No data available
<b>Evaporation rate:</b>	Not determined
<b>Solubility in / Miscibility with-water at 20 °C:</b>	Highly soluble
<b>Partition coefficient:(n-octanol/water)</b>	-1.3
<b>Viscosity:</b>	No data available

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	No data available
<b>10.2 Chemical stability</b>	This chemical is stable under storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	can react violently with reducing agents, combustible materials, organic substances, and acids, potentially causing fire or explosion.
<b>10.4 Conditions to avoid</b>	Heat, open flames, sparks, moisture,
<b>10.5 Incompatible materials</b>	Strong reducing agents, strong acids, metals.
<b>10.6 Hazardous decomposition products</b>	Potassium oxides, chromium oxides.

## SECTION 11: Toxicological information

<b>11.1 Information on toxicological effects</b>	
<b>Acute Toxicity:</b>	<b>LD50</b> (Oral, Rat): no data available <b>LD50</b> (Dermal, Rabbit): no data available <b>LC50</b> (Inhalation Rat): no data available
<b>Skin corrosion/Irritation:</b>	Causes skin burns and serious irritation
<b>Serious eye damage/irritation:</b>	Causes eye damage
<b>Respiratory damage/irritation:</b>	Causes serious respiratory irritation
<b>Ingestion:</b>	No data available
<b>Germ cell mutagenicity:</b>	Causes genetic defects
<b>Carcinogenicity:</b>	May cause cancer
<b>Reproductive toxicity:</b>	May damage fertility
<b>Specific target organ toxicity - single exposure:</b>	May cause respiratory irritation
<b>Specific target organ toxicity - repeated exposure:</b>	May cause damage to cardiovascular system through repeated exposure.
<b>Aspiration hazard:</b>	No data available
<b>Signs and Symptoms of Exposure:</b>	Refer section 2.3
<b>11.2 Additional toxicological information</b>	
<b>Biodegradability:</b>	Not biodegradable

## SECTION 12: Ecological information

<b>12.1 Toxicity Aquatic toxicity:</b>	LC50(fish): no data available EC50(daphnia): no data available ErC50(algae): no data available
<b>12.2 Persistence and degradability:</b>	Not biodegradable
<b>12.3 Bioaccumulative potential:</b>	Low bioaccumulative
<b>12.4 Mobility in soil:</b>	High mobility
<b>12.5 Other adverse effects:</b>	No data available

## SECTION 13: Disposal considerations

<b>13.1 Waste treatment methods</b>	
<b>Uncleaned packaging Recommendation:</b>	dispose of in accordance with local hazardous waste regulations
<b>Recommended cleansing agents:</b>	Water, mild detergents, sodium thiosulfate, sodium metabisulfite.

## SECTION 14: Transport information

<b>14.1 UN-Number · ADR, ADN, IMDG, IATA:</b>	3087
<b>14.2 UN proper shipping name · ADR, ADN, IMDG, IATA:</b>	POTASSIUM DICHROMATE
<b>14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA :</b>	5.1 (6.1)
<b>14.4 Packing group · ADR, IMDG, IATA:</b>	2
<b>14.5 Environmental hazards:</b>	None
<b>14.6 Special precautions for user:</b>	Handle responsibly.

## SECTION 15: Regulatory information

<b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU</b>	Directive 2012/18/EU, under that this substance is classified in listed substances as oxidizing liquid, acute toxic and environmental hazard
<b>Named dangerous substances:</b>	This substance is not listed in the annex 1 to the directive.
<b>15.2 Chemical safety assessment:</b>	Chemical assessment has not been carried out.

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## SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their independent judgment suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

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