



**Be Right™**

# SAFETY DATA SHEET

Issue Date 27-Dec-2018

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Version 1.3

## 1. Identification

### Product identifier

**Product Name** Chloride 2 Indicator

### Other means of identification

**Product Code(s)** 104320

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent. Determination of chloride.

### Details of the supplier of the safety data sheet

#### **Manufacturer Address**

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

#### **Emergency telephone number**

**Emergency Telephone** +1(303) 623-5716 - 24 Hour Service

## 2. Hazards identification

### Classification

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2A - (H319)
Skin sensitization	Category 1 - (H317)
Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1A - (H350)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Chronic aquatic toxicity	Category 1 - (H410)

### Label elements

**Signal word** - Danger

#### **Hazard statements**

H302 - Harmful if swallowed

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

H410 - Very toxic to aquatic life with long lasting effects



Exclamation mark  
Health hazard  
Environment

#### Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P362 + P364 - Take off contaminated clothing and wash it before reuse

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P501 - Dispose of contents/ container to an approved waste disposal plant

P201 - Obtain special instructions before use

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P405 - Store locked up

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

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

P273 - Avoid release to the environment

P391 - Collect spillage

P270 - Do not eat, drink or smoke when using this product

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

P330 - Rinse mouth

#### Other Hazards Known

Not applicable

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical Family Mixture.

Chemical name	CAS No.	Synonyms	Percent Range
Sodium bicarbonate	144-55-8	No information available	50 - 60%
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ),	7789-00-6	No information available	50 - 60%

dipotassium salt			
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#### 4. First aid measures

##### Description of first aid measures

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.
<b>Inhalation</b>	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.
<b>Skin contact</b>	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

<b>Symptoms</b>	Itching. Rashes. Hives. Burning sensation.
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##### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	May cause sensitization in susceptible persons. Treat symptomatically.
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#### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Specific hazards arising from the chemical</b>	Product is or contains a sensitizer. May cause sensitization by skin contact.
<b>Hazardous combustion products</b>	This material will not burn.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective actions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental release measures

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

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**7. Handling and storage**

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

**8. Exposure controls/personal protection**

**Control parameters**

**Exposure Limits** Based on NOM-010-STPS-2014.

Chemical name	TWA	STEL	Ceiling Limit Value
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt 7789-00-6	0.05 mg/m <sup>3</sup> 0.5 mg/m <sup>3</sup>	-	-

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles). If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid	<b>Color</b>	yellow
<b>Appearance</b>	powder	<b>Odor threshold</b>	No data available
<b>Odor</b>	Odorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	No data available	
<b>pH</b>	8.2	5% Solution
<b>Melting point/freezing point</b>	No data available	
<b>Boiling point / boiling range</b>	No data available	
<b>Evaporation rate</b>	Not applicable	
<b>Vapor pressure</b>	Not applicable	
<b>Vapor density (air = 1)</b>	Not applicable	
<b>Specific gravity (water = 1 / air = 1)</b>	2.25	
<b>Partition Coefficient (n-octanol/water)</b>	log K <sub>ow</sub> ~ 0	
<b>Soil Organic Carbon-Water Partition Coefficient</b>	log K <sub>oc</sub> ~ 0	
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	100 °C / 212 °F	
<b>Dynamic viscosity</b>	Not applicable	
<b>Kinematic viscosity</b>	Not applicable	

### Solubility(ies)

#### Water solubility

<u>Water solubility classification</u>	<u>Water solubility</u>	<u>Water Solubility Temperature</u>
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

<u>Chemical Name</u>	<u>Solubility classification</u>	<u>Solubility</u>	<u>Solubility Temperature</u>
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

### Other Information

#### Metal Corrosivity

Steel Corrosion Rate Not applicable  
 Aluminum Corrosion Rate Not applicable

**Volatile Organic Compounds (VOC) Content**  
 Not applicable

Chemical name	CAS No.	Volatile organic compounds (VOC) content	CAA (Clean Air Act)
Sodium bicarbonate	144-55-8	No data available	-
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt	7789-00-6	No data available	-

#### Explosive properties

Upper explosion limit No data available  
 Lower explosion limit No data available

#### Flammable properties

Flash point Not applicable

#### Flammability Limit in Air

Upper flammability limit No data available  
 Lower flammability limit No data available

#### Oxidizing properties

No data available.

#### Bulk density

No data available

## 10. Stability and reactivity

**Reactivity** No information available.  
**Chemical stability** Stable under normal conditions.  
**Possibility of Hazardous Reactions** None under normal processing.  
**Conditions to avoid** None known based on information supplied.  
**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.  
**Hazardous Decomposition Products** Carbon monoxide. Carbon dioxide. chromium. chromium trioxide.

## 11. Toxicological information

### Information on Likely Routes of Exposure

#### Product Information

**Inhalation** May cause irritation of respiratory tract.  
**Eye contact** Irritating to eyes. Causes serious eye irritation.  
**Skin contact** May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Causes skin irritation.  
**Ingestion** Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if

swallowed.

**Symptoms**

Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

**Acute toxicity**

**Product Acute Toxicity Data**

Test data reported below.

**Oral Exposure Route**

<u>Endpoint type</u>	<u>Toxicological effects</u>	<u>Key literature references and sources for data</u>
Rat LD <sub>50</sub>	<p><b>Behavioral</b> Flaccid muscle tone Lethargy Loss of righting reflex Prostration</p> <p><b>Endocrine</b> Abnormalities of the spleen</p> <p><b>Eye</b> Ptosis</p> <p><b>Gastrointestinal</b> Abnormalities of the gastrointestinal tract Mucoid diarrhea</p> <p><b>Liver</b> Abnormalities of the liver</p> <p><b>Lungs, Thorax, or Respiration</b> Abnormalities of the lungs Dyspnea Red or brown staining of the nose/mouth area Tachypnea</p> <p><b>Nutritional and Gross Metabolic</b> Wetness of the anogenital area</p> <p><b>Reproductive</b></p> <p><b>Skin and Appendages</b> Piloerection Wetness of the nose/mouth</p>	Outside testing

**Inhalation (Gas) Exposure Route**

**Ingredient Acute Toxicity Data**

Test data reported below.

<b>Chemical name</b>	<b>Endpoint type</b>	<b>Reported dose</b>	<b>Exposure time</b>	<b>Toxicological effects</b>	<b>Key literature references and sources for data</b>
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Rat LD <sub>50</sub>	4220 mg/kg	None reported	None reported	Vendor SDS

Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	Mouse LD <sub>50</sub>	180 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)
<b>Chemical name</b>	<b>Endpoint type</b>	<b>Reported dose</b>	<b>Exposure time</b>	<b>Toxicological effects</b>	<b>Key literature references and sources for data</b>
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Rat LC <sub>50</sub>	> 4.47 mg/L	4 hours	None reported	OECD (Organization for Economic Co-operation and Development) Guideline 429 (Skin Sensitization: Local Lymph Node Assay)

**Unknown acute toxicity**

0 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

**Acute Toxicity Estimations (ATE)**

<b>ATEmix (oral)</b>	No information available
<b>ATEmix (dermal)</b>	No information available
<b>ATEmix (inhalation-dust/mist)</b>	No information available
<b>ATEmix (inhalation-vapor)</b>	No information available
<b>ATEmix (inhalation-gas)</b>	No information available

**Skin corrosion/irritation**

Classification based on data available for ingredients. Irritating to skin.

**Product Skin Corrosion/Irritation Data**

No data available.

**Ingredient Skin Corrosion/Irritation Data**

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Standard Draize Test	Human	30 mg	3 days	Mild skin irritant	RTECS (Registry of Toxic Effects of Chemical Substances)
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	None reported	None reported	None reported	None reported	Skin irritant	No information available

**Serious eye damage/eye irritation**

Classification based on data available for ingredients. Irritating to eyes.

**Product Serious Eye Damage/Eye Irritation Data**

No data available.

**Ingredient Eye Damage/Eye Irritation Data**

No data available.

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium bicarbonate	Standard Draize	Rabbit	100 mg	0.5 minutes	Mild eye irritant	RTECS (Registry of



(50 - 60%) CAS#: 144-55-8	Test					Toxic Effects of Chemical Substances)
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	None reported	None reported	None reported	None reported	None reported	Eye irritant  No information available

**Respiratory or skin sensitization**

May cause sensitization by skin contact.

**Product Sensitization Data**

No data available.

**Ingredient Sensitization Data**

No data available.

Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Based on human experience	Human	Not confirmed to be a skin sensitizer	No information available
Chemical name	Test method	Species	Results	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Based on human experience	Human	Not confirmed to be a respiratory sensitizer	No information available

**STOT - single exposure**

May cause respiratory irritation.

**Product Specific Target Organ Toxicity Single Exposure Data**

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Infant TD <sub>Lo</sub>	1260 mg/kg	None reported	<b>Kidney, Ureter, or Bladder</b> Urine volume increased <b>Lungs, Thorax, or Respiration</b> Other changes	RTECS (Registry of Toxic Effects of Chemical Substances)

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Product Specific Target Organ Toxicity Repeat Dose Data**

No data available.

**Ingredient Specific Target Organ Toxicity Repeat Exposure Data**

No data available.

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Man TD <sub>Lo</sub>	20 mg/kg	5 days	<b>Gastrointestinal</b> Nausea or vomiting <b>Nutritional and Gross Metabolic</b> Metabolic acidosis	RTECS (Registry of Toxic Effects of Chemical Substances)
Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Sodium bicarbonate	Rat	77.2 mg/L	119 days	<b>Blood</b>	RTECS (Registry of Toxic

(50 - 60%) CAS#: 144-55-8	TC <sub>Lo</sub>			Changes in serum composition (e.g. TP, bilirubin, cholesterol) <b>Cardiac</b> Other changes <b>Nutritional and Gross</b> <b>Metabolic</b> Changes in sodium	Effects of Chemical Substances)
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**Carcinogenicity**

Classification based on data available for ingredients. Contains a known or suspected carcinogen.

**Product Carcinogenicity Data**

No data available.

**Ingredient Carcinogenicity Data**

No data available.

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Sodium bicarbonate	144-55-8	-	-	-	-
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt	7789-00-6	A1	Group 1	Known	X

**Legend**

<b>ACGIH (American Conference of Governmental Industrial Hygienists)</b>	A1 - Known Human Carcinogen
<b>IARC (International Agency for Research on Cancer)</b>	Group 1 - Carcinogenic to Humans
<b>NTP (National Toxicology Program)</b>	Known - Known Carcinogen
<b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b>	X - Present

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	Mouse	1600 mg/kg	62 weeks	<b>Blood</b> Leukemia <b>Lungs, Thorax, or</b> <b>Respiration</b>	RTECS (Registry of Toxic Effects of Chemical Substances)

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Product Germ Cell Mutagenicity invitro Data**

No data available.

**Ingredient Germ Cell Mutagenicity invitro Data**

No data available.

Chemical name	Test	Cell Strain	Reported dose	Exposure time	Results	Key literature references and sources for data
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	Sister chromatid exchange	Human fibroblast	100 nmol/L	None reported	Positive test result for mutagenicity	RTECS (Registry of Toxic Effects of Chemical Substances)

**Product Germ Cell Mutagenicity invivo Data**

No data available.

**Ingredient Germ Cell Mutagenicity invivo Data**

No data available.

Chemical name	Test	Species	Reported dose	Exposure time	Results	Key literature references and
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Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	Unscheduled DNA synthesis	Rat	50400 mg/kg	4 weeks	Positive test result for mutagenicity	<b>sources for data</b> RTECS (Registry of Toxic Effects of Chemical Substances)
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**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Product Reproductive Toxicity Data**

No data available.

**Ingredient Reproductive Toxicity Data**

No data available.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. Ecological information

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

**Unknown aquatic toxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Product Ecological Data****Aquatic Acute Toxicity**

No data available.

**Aquatic Chronic Toxicity**

No data available.

**Ingredient Ecological Data****Aquatic Acute Toxicity**

No data available.

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	96 hours	<i>Lepomis macrochirus</i>	LC <sub>50</sub>	7100 mg/L	PEEN (Pan European Ecological Network)
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	96 hours	<i>Pimephales promelas</i>	LC <sub>50</sub>	40 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium bicarbonate (50 - 60%) CAS#: 144-55-8	48 Hours	<i>Daphnia magna</i>	EC <sub>50</sub>	4100 mg/L	PEEN (Pan European Ecological Network)
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt (50 - 60%) CAS#: 7789-00-6	48 Hours	<i>Daphnia magna</i>	EC <sub>50</sub>	15 mg/L	GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance)
Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ),	72 Hours	<i>Nitzschia sp.</i>	EC <sub>50</sub>	0.26 mg/L	GESTIS (Information System on Hazardous Substances of the

dipotassium salt (50 - 60%) CAS#: 7789-00-6					German Social Accident Insurance)
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**Aquatic Chronic Toxicity**

No data available.

**Persistence and degradability**

**Product Biodegradability Data**

No data available.

**Bioaccumulation**

**Product Bioaccumulation Data**

No data available.

**Partition Coefficient (n-octanol/water)**

log K<sub>ow</sub> ~ 0

**Mobility**

**Soil Organic Carbon-Water Partition Coefficient**

log K<sub>oc</sub> ~ 0

**Other adverse effects**

Contains a substance with an endocrine-disrupting potential. Environmental exposure.

**13. Disposal considerations**

**Waste treatment methods**

**Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging**

Do not reuse empty containers.

**14. Transportation information**

**MEX**

<b>UN/ID no</b>	UN3288
<b>Proper shipping name</b>	Toxic solid, inorganic, n.o.s.
<b>Hazard Class</b>	6.1
<b>Packing Group</b>	III
<b>Description</b>	UN3288, Toxic solid, inorganic, n.o.s. (Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt), 6.1, III

**Note:**

No special precautions necessary.

**TDG**

<b>UN/ID no</b>	UN3288
<b>Proper shipping name</b>	Toxic solid, inorganic, n.o.s.
<b>Hazard Class</b>	6.1
<b>Packing Group</b>	III
<b>Description</b>	UN3288, Toxic solid, inorganic, n.o.s. (Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt), 6.1, III

**U.S. DOT**

<b>UN/ID no</b>	UN3288
<b>Proper shipping name</b>	Toxic solid, inorganic, n.o.s.
<b>Hazard Class</b>	6.1
<b>Packing Group</b>	III
<b>Special Provisions</b>	IB8, IP3, T1, TP33
<b>Description</b>	UN3288, Toxic solid, inorganic, n.o.s. (Chromic acid (H <sub>2</sub> CrO <sub>4</sub> ), dipotassium salt), 6.1, III

**Emergency Response Guide Number** 151

**ICAO (air)**

**UN/ID no** UN3288  
**Proper shipping name** Toxic solid, inorganic, n.o.s.  
**Hazard Class** 6.1  
**Packing Group** III  
**Special Provisions** A3, A5  
**Description** UN3288, Toxic solid, inorganic, n.o.s. (Chromic acid (H<sub>2</sub>CrO<sub>4</sub>), dipotassium salt), 6.1, III

**IATA**

**UN/ID no** UN3288  
**Proper shipping name** Toxic solid, inorganic, n.o.s.  
**Hazard Class** 6.1  
**Packing Group** III  
**ERG Code** 6L  
**Special precautions for user** A3,A5

**IMDG**

**UN/ID no** UN3288  
**Proper shipping name** Toxic solid, inorganic, n.o.s.  
**Hazard Class** 6.1  
**Packing Group** III  
**EmS-No** F-A, S-A  
**Special precautions for user** 223, 274  
**Marine pollutant** This material meets the definition of a marine pollutant

**RID** Not regulated

**ADR**

**UN/ID no** UN3288  
**Proper shipping name** Toxic Solid, Inorganic, N.O.S.  
**Hazard Class** 6.1  
**Packing Group** III

**ADN** Not regulated

**Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.  
 If the item is part of a reagent set or kit the classification would change to the following:  
 UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.  
 If the item is not regulated, the Chemical Kit classification does not apply.

## 15. Regulatory information

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

**International Regulations**

**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable

**The Stockholm Convention on Persistent Organic Pollutants** Not applicable

**The Rotterdam Convention** Not applicable

**International Inventories**

**TSCA** Complies.  
**DSL/NDL** Complies.  
**EINECS/ELINCS** Complies.  
**ENCS** Complies.  
**IECSC** Complies.

KECL Complies.  
 PICCS Complies.  
 AICS Complies.

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## 16. Other information

<b>NFPA</b>	<b>Health hazards</b> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and chemical properties</b> -
<b>HMIS</b>	<b>Health hazards</b> 2 *	<b>Flammability</b> 0	<b>Physical hazards</b> 0	<b>Personal protection</b> X

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	SKN*	Skin designation

#### **Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGL(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 Japan GHS Classification  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 RTECS (Registry of Toxic Effects of Chemical Substances)  
 World Health Organization

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**The information is believed to be accurate, but it is not exhaustive and must be used only as guidance. It is based on the current state of knowledge of the chemical substance or mixture and is applicable to the appropriate safety precautions for the product.**

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

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**End of Safety Data Sheet**