


<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

### 1.1. Product identifier

Name: Sodium dichromate (anhydrous)  
Synonyms : Sodium bichromate anhydrous  
CLP Annex I, index nr. 024-004-00-7  
EC/EINECS No. : 234-190-3  
CAS No. 10588-01-9, Chromic acid, sodium salt  
Registration nr : 01-2119435525-40-0015

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Intended use:

#### Use of the substance is limited to the authorisation numbers:

REACH/20/4/0: Formulation of mixtures for surface treatment of metals (such as aluminium, steel, zinc, magnesium, titanium, alloys), composites, sealings of anodic films and for use for electrolytic passivation of tin plated steel for the packaging industry intended exclusively for uses REACH/20/4/1 and REACH/20/4/2

REACH/20/4/1: Surface treatment of metals (such as aluminium, steel, zinc, magnesium, titanium, alloys), composites and sealings of anodic films for the aerospace industry in surface treatment processes in which any of the key functionalities listed in the Annex is required (see end of this MSDS)

REACH/20/4/2: Electrolytic passivation of tin-plated steel for the packaging industry.

#### SEE E-SDS FOR MORE INFORMATION

1.2.2 Uses advised against no information available

### 1.3 Details of the supplier of the safety datasheet

Supplier : GENTROCHEMA BV  
Lage Ham 190, NL-5102 AE Dongen, Nederland  
Tel.: +31.162.249020  
E-mail : [w@gentrochem.nl](mailto:w@gentrochem.nl) Website : [www.gentrochem.nl](http://www.gentrochem.nl)

### 1.4 Emergency telephone nr :


during office hours (08:30 - 17:00) : +31.183.304422  
After office hours (*only for health professionals*) : +44.844.892.01

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance

#### 2.1.1. Classification according to Regulation 1272/2008 EC

Endpoint	Hazard category	Hazard statement
Oxidising solids	Oxid. Solid 2	H272: May intensify fire; oxidiser swallowed.
Acute toxicity - oral:	Acute Tox. 3	H301: Toxic if swallowed.
Acute toxicity -	Acute Tox. 4	H312: Harmful in contact with skin.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

dermal:		
Acute toxicity - inhalation:	Acute Tox. 2	H330: Fatal if inhaled.
Skin corrosion / irritation:	Skin Corr. 1B	H314: Causes severe skin burns and eye damage.
Respiration sensitization:	Resp. Sens. 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization:	Skin Sens. 1	H317: May cause an allergic skin reaction.
Reproductive Toxicity:	Repr. 1B	H360: May damage fertility or the unborn child
Germ cell mutagenicity:	Muta. 1B	H340: May cause genetic defects
Carcinogenicity:	Carc. 1B	H350: May cause cancer
Specific target organ toxicity - repeated:	STOT Rep. Exp. 1	H372: Causes damage to organs through prolonged or repeated exposure Affected organs: cardiovascular/hematological: hematopoiesis Route of exposure: inhalation


Specific concentration limits:

Concentration (%)	Classification
>= 5.0	STOT SE3 / H335
>= 0.2	Resp. Sens. 1 / H334 Skin Sens. 1 / H317

Endpoint	Hazard category	Hazard statement
Hazards to the aquatic environment (acute/short-term):	Aquatic Acute 1	H400: Very toxic to aquatic life.
Hazards to the aquatic environment (long-term):	Aquatic Chronic 1	H410: Very toxic to aquatic life with long lasting effects.

2.1.2. Classification according to Regulation 67/548/EC

Endpoint	Classification
Oxidising properties	O; R8 Contact with combustible material may cause fire
Acute toxicity:	Xn; R21 Harmful in contact with skin.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

	T; R25 Toxic if swallowed.
Repeated dose toxicity:	T; R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
Irritation / Corrosion:	C; R34 Causes burns. Xi; R37 Irritating to respiratory system
Sensitisation:	R42/43 May cause sensitisation by inhalation and skin contact.
Carcinogenicity:	Carc. Cat. 2; R45 May cause cancer.
Mutagenicity - Genetic Toxicity:	Muta. Cat. 2; R46 May cause heritable genetic damage.
Toxicity to reproduction - fertility:	Repr. Cat. 2; R60 May impair fertility.
Toxicity to reproduction - development:	Repr. Cat. 2; R61 May cause harm to the unborn child.
Environment:	N; R50/53 Dangerous for the environment; Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Specific concentration limits:**

Concentration (%)	Classification
>= 25.0	C; R34 Causes burns.
>= 5.0 – < 10.0	Xi; R36/37/38 Irritating to eyes, respiratory system and skin.
>= 0.2	R42/43 May cause sensitization by inhalation and skin contact.

**2.2 Label elements**

**2.2.1. Labelling according to Regulation 1272/2008**

*Product identifier* : Sodium dichromate


*Index Nr* : 024-004-00-7

*Hazard Pictogram(s)*:



*Signal word* : Danger

*Hazard Statement(s)*:

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</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.  
 H340: May cause genetic defects  
 H350: May cause cancer  
 H360: May damage fertility or the unborn child. (FD)  
 H372: Causes damage to organs through prolonged or repeated exposure  
 H410: Very toxic to aquatic life with long lasting effects.

*Precautionary statement(s)*

P202: Do not handle until all safety precautions have been read and understood  
 P281: Use personal protective equipment as required  
 P308+P313: IF exposed or concerned: Get medical advice/attention  
 P501: Dispose of contents/container to.....  
 P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**2.3. Other hazards**

PBT/vPvB criteria: Not relevant (inorganic substance)

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Chemical characterization: Sodium dichromate, min 98,9 % Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>, with non hazardous additions


Composition/information on ingredients :

EINECS nr : 234-190-3  
 CAS nr : 10588-01-9  
 Index No. 024-004-00-7  
 Substance of Very High Concern : yes

**4. FIRST AID MEASURES**

**4.1 Description of first aid measures**

**- General information:** In case of contact, immediately flush eyes or skin with copious amounts of water for at least 15 minutes while removing contaminated clothing and shoes.  
**- After inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation as the inhaled material is toxic and corrosive. Seek immediate medical attention.

- **After skin contact:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Get medical attention immediately.
- **After eye contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately.
- **After swallowing:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

#### **4.2. Most important symptoms and effects, both acute and delayed**

Breathing difficulty. Asthma attacks. Allergic reactions.  
Danger of hyperglycaemia. Danger of impaired breathing

#### **4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation. Medical supervision for at least 48 hours

### **5. FIRE-FIGHTING MEASURES**

#### **5.1 Extinguishing media**

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide  
Non-suitable extinguishing media: Not known

#### **5.2 Special hazards arising from the substance**

In certain fire conditions, toxic gases may occur.

#### **5.3 Advice for fire-fighters**


May intensify fire; oxidiser.  
Wear self contained breathing apparatus and fully protective suit.  
Avoid release of the extinguishing media to the environment.

#### **5.4 Further information**

The substance is non-flammable but may ignite combustible material on contact.

### **6. ACCIDENTAL RELEASE MEASURES**

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

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Avoid causing dust. Wear protective equipment.

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.

Large Spill: Oxidizing material. Poisonous solid. Stop leak if without risk. Do not get water inside container. Avoid contact with a combustible material (wood, paper, oil, clothing). Keep substance damp using water spray. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.

### 6.2 Environmental precautions

This material and its container must be disposed of as hazardous waste. Avoid release to the environment.

Effluents are treated before they are discharged to STP with any remaining chromium (VI) remaining reduced to insoluble chromium (III) salts by the addition of sodium bisulphite, ferrous sulphate and chloride. The salts are precipitated and disposed of in landfill or recycled.

### 6.3 Methods and materials for containment and cleaning up

Pick up spilled product, keep in a closed container and hold for waste.

### 6.4 Reference to other sections

For safe use : refer to section 7  
 For personal protection : refer to section 8.  
 For disposal : refer to section 13

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Do not ingest. Do not breathe dust. Never add water to this product. In case of insufficient ventilation, it is advised to use respiratory protection of APF = 4 or greater such as a filtering/valve half mask (see Annex/ e-SDS). If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes

### 7.2 Conditions for safe storage, including any incompatibilities

Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Keep away from: combustible material, incompatibles such as combustible materials, organic materials. Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalis, reducing agents and combustibles.

### 7.3 Specific end uses


No additional information

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Occupational exposure limits (OELs) for EU Member States, from human health RRS (HSE, 2007)**

Country	Compound	Limit (mg/m <sup>3</sup> as Cr)	Type of Limit	Notations
---------	----------	---------------------------------	---------------	-----------

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Country	Compound	Limit (mg/m <sup>3</sup> as Cr)	Type of Limit	Notations
UK	Cr VI compounds	0.05	8-hr TWA (WEL)	Sen, BMGV
Germany	Production of soluble Cr VI compounds	0.1	8-hr TWA (TRK)	Sh, EKA
	Other Cr VI compounds	0.05		
Netherlands	Soluble Cr VI compounds	0.025 0.05	8-hr TWA STEL	
Sweden	Chromates and Chromic acid	0.02 0.06	8-hr TWA STEL	
Finland	Cr VI compounds	0.05	TWA	
France	Cr VI compounds	0.05	8-hr TWA STEL	
		0.1		

WEL Workplace exposure limit  
 STEL Short term exposure limit  
 TRK Technical exposure limit  
 TWA Time weighted average

Sen Indication that the substance can cause occupational asthma  
 BMGV Biological monitoring guidance value is available  
 Sh Notation to indicate a skin sensitiser  
 EKA Exposure equivalent values for biological monitoring


#### DMEL

Route	Type of effect	Hazard conclusion	Most sensitive endpoint
Inhalation	Local effects - Long-term	DMEL (Derived Minimum Effect Level): 0.01 mg/m <sup>3</sup> (Cr VI) = 0.025 mg/m <sup>3</sup> Cr	carcinogenicity
Inhalation	Local effects - Acute	DMEL (Derived Minimum Effect Level): 0.01 mg/m <sup>3</sup> (Cr VI) = 0.025 mg/m <sup>3</sup> Cr	carcinogenicity

#### PNEC

Compartment	Hazard conclusion
Freshwater	The PNEC value for Cr (VI) is 3.4 µg/L  The PNEC value for Cr (III) is 4.7 µg/L
Marine water	The PNEC value for Cr (III) is 0.47 µg/L
Intermittent releases to water	-
Sediments (freshwater)	PNEC sediment (freshwater): 31 mg/kg sediment ww as Cr (III) 1.5 mg/kg ww as Cr(VI)
Sediments	PNEC sediment (marine)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is intended to describe the product in respect of safety requirements only. None of the information is to be taken to constitute a guarantee concerning the properties of this product.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Compartment	Hazard conclusion
(marine water)	water): 3.1 mg/kg sediment ww as Cr (III)
Sewage treatment plant	PNEC STP: 10 mg/L as Cr (III) 0.21 mg/L as Cr (VI)
Soil	PNEC soil: 3.3 mg/kg ww as Cr (III) 0.031 mg/kg ww as Cr(VI)
Air	Not relevant
Secondary poisoning	PNEC oral: 17 mg/kg food (Cr (VI))

## 8.2 Exposure controls

Do not breathe dust.  
Avoid contact with skin, eyes or clothes.  
Wash thoroughly after handling.  
Only use in a well-ventilated place.  
Safety shower and eye bath should be present.

Loss of the substance as aerosols is controlled by process containment, mist suppressants and waste air scrubber systems. In tin plated steel products passivation the following PPE is worn: washable/disposable overalls, safety boots/wellingtons, face shield and suitable gloves. Use of RPE when in vicinity of plating tank. Impermeable protective gloves – chemical resistant and compliant with Standard EN 374-1. Acid-resistant (PVC) long protective gloves, which go over the sleeves. Protective gloves must be selected according to the function of the industrial installation – the other chemicals being handled, whether physical protection is required, and the degree of dexterity required.

### Personal protection :

- Hand protection : Use chemical resistant neoprene gloves. See standard : EN-374-3:2003.
- Eye/face protection : Use tight fitting goggles. See standard: EN 166:2001.
- Skin/body protection : Wear appropriate protective clothing.
- Respiratory protection : Wear appropriate respirator, Filter P3 (white).

### Environmental protection:

Effluents are treated before they are discharged to STP with any remaining chromium (VI) remaining reduced to insoluble chromium (III) salts by the addition of sodium bisulphite, ferrous sulphate and chloride. The salts are precipitated and disposed of in landfill or recycled. In addition, for release via air scrubbers/ventilation with an efficiency of 99% have to be used.

### Other information :


After handling, take a shower. Working clothes should not be taken home.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 information on basic physical and chemical properties

**Appearance:** reddish to bright orange crystals  
**Odour:** odourless



<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

<b>Odour threshold:</b>	Not determined
<b>PH-value :</b>	3.7
<b>Alkalinity or acidity :</b>	Not determined
<b>Boiling point :</b>	> 400 °C
<b>Melting point :</b>	approx. 357 °C
<b>Flash point:</b>	Not relevant. (inorganic liquid substance)
<b>Evaporation rate:</b>	Not relevant. (inorganic liquid substance)
<b>Flammability :</b>	Not relevant
<b>Vapour pressure :</b>	23 hPa
<b>Vapour density :</b>	Not relevant
<b>Relative Density :</b>	approx. 2.5 (at 20°C)
<b>Solubility in water :</b>	approx. 1800 g/l (at 20°C)
<b>Solubility in other solvents :</b>	Not relevant.(inorganic substance)
<b>Partition coefficient n-octanol/water:</b>	Not relevant.(inorganic substance)
<b>Auto ignition temperature:</b>	Sodium (VI) dichromate is classified as not undergoing spontaneous combustion when tested according to the EC Test Procedure A16.
<b>Decomposition temperature :</b>	Not relevant
<b>Viscosity :</b>	Not relevant (inorganic solid substance)
<b>Explosive properties</b>	on the basis of theoretical evaluation of structure, there are no chemical groups that are considered to be explosive
<b>Oxidising properties :</b>	Oxidiser. May intensify fire

#### **9.2. other information**

No additional information

### **10. STABILITY AND REACTIVITY**

#### **10.1 Reactivity**

Contact with combustible material may cause fire.  
Reacts violently with reducing substances.

#### **10.2 Chemical stability**

Stable under circumstances as advised in section 7.

#### **10.3 Possibility of hazardous reactions**

Do not mix with reducing substances, acids and organic substances.

#### **10.4 Conditions to avoid**

Keep away from combustible materials, heat, sparks and open flames. Keep away from sources of ignition - No smoking.

#### **10.5 Incompatible materials**

Do not mix with reducing substances, acids and organic substances.

#### **10.6. Hazardous decomposition products**


Toxic metal oxide smoke

### **11. TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

9 / 14

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is intended to describe the product in respect of safety requirements only. None of the information is to be taken to constitute a guarantee concerning the properties of this product.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Endpoint	Route	Dose descriptor or qualitative effect characterisation; test type
Acute toxicity	oral	LD50: 59 mg/kg bw
Acute toxicity	dermal	LD50: 2000 mg/kg bw
Acute toxicity	inhalation	LC50: 200 mg/m <sup>3</sup>
Irritation / Corrosivity	skin	Adverse effect observed corrosive
Irritation / Corrosivity	eye	Adverse effect observed corrosive
Irritation / Corrosivity	respiratory tract	Adverse effect observed irritating
Sensitisation	skin	Adverse effect observed (sensitising)
Sensitisation	respiratory tract	Adverse effect observed (sensitising)
Repeated dose toxicity	oral	LOAEL = 1.7 mg/kg bw/d Target organs: cardiovascular / hematological: hematopoiesis
Repeated dose toxicity	dermal (systemic effects)	Irritation / corrosivity likely
Repeated dose toxicity	inhalation (systemic effects)	LOAEC = 1.81 mg/m <sup>3</sup> Target organs: respiratory: other
Mutagenicity	in vitro / in vivo	Adverse effect observed (positive)
Reproductive toxicity: effects on fertility	oral	NOAEL = 40 mg/kg bw/d, No relevant effects
Reproductive toxicity: developmental toxicity	oral	LOAEL = 20 mg/kg bw/d, Significant developmental effects

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**


Carc. Cat. 1B, Muta. Cat. 1B, Repr. Cat. 1B

**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**

Species	Results

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is intended to describe the product in respect of safety requirements only. None of the information is to be taken to constitute a guarantee concerning the properties of this product.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Species	Results
<i>Daphnia magna</i>	EC50 (24 h): 1.5 mg/L, based on: mortality (potassium dichromate ring test, equivalent to 0.53 mg Cr/l)
Range of species (fish)	LC50 (96 h): 13 – 100 mg/L (Range of LC50 values reported for freshwater species) LC50 (96 h): 21.4 – 84.8 mg/L (Range of LC50 values reported for saltwater species) Test material: Several Cr-compounds
(aquatic plants) <i>Lemna gibba</i>	NOEC (8 d): 0.1 mg/L based on: growth rate
<i>Lemna minor</i>	NOEC (7 d): 0.11 mg/L based on: growth rate
<i>Spirodela polyrrhiza</i>	NOEC (8 d): 0.1 mg/L based on: growth rate
<i>Spirodela punctata</i>	NOEC (8 d): 0.5 mg/L based on: growth rate
(bacteria)	
<i>Chilomonas paramecium</i>	NOEC 1.0 mg/L
<i>Colpidium campylum</i>	IC50 2.8 mg/L
<i>Microregma heterosoma</i>	NOEC 0.21 mg/L
Activated sludge	IC50 30 mg/L

Very toxic to aquatic life with long lasting effects.

#### **12.2 Persistence and degradability**

No additional information


#### **12.3 Bio accumulative potential**

No additional information

#### **12.4 Mobility in soil**

No additional information

#### **12.5 Results of PBT and vPvB assessment**

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

Not relevant (inorganic substance)

### 13. DISPOSAL CONSIDERATIONS

**Product/packing :** Observe all federal, state and local environmental regulations. See directives 75/442/EEC and 2006/12/EC. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

### 14. TRANSPORT INFORMATION

Landtransport (RID/ADR) :



ADR/GGVSEB class: 6.1 (T5), toxic substances  
 GEVI Nr.: 60  
 Label : skull / fish and tree  
 Packing group: III  
 UN nr. : 3288  
 Tunnel restriction code E  
 TOXIC SOLID, INORGANIC, N.O.S. (sodium dichromate)  
 ENVIRONMENTALLY HAZARDOUS

Sea transport (IMDG) :




IMDG class: 6.1  
 UN nr. : 3288  
 Label : 6.1  
 Packing group : III  
 EMS: F-A, S-A  
 Segregation group: 1, ACIDS  
 Marine Pollutant : yes  
 TOXIC SOLID, INORGANIC, N.O.S. (sodium dichromate)

Air transport (ICAO-IATA):



ICAO/IATA class: 6.1  
 UN/ID Number: 3288  
 Label: 6.1  
 Packing group: III  
 TOXIC SOLID, INORGANIC, N.O.S. (sodium dichromate)

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
	<b>SODIUM DICHROMATE</b>	

## 15. REGULATORY INFORMATION

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

#### State regulations

Observe all federal, state and local regulations.

#### Information about employment restrictions

Employment restrictions for young workers (94/33/EC)

Employment restrictions concerning pregnant and lactating women must be observed. (92/85/EC)

Employment restrictions concerning women of child-bearing age must be observed

#### Water hazard class:

4A (Netherlands)

#### additional regulations and restrictions

Listed as Substances of Very High Concern (SVHC) according to REACH, Article 57

### 15.2 Chemical Safety report

A Chemical Safety Assessment has been carried out

## 16. OTHER INFORMATION

### relevant Hazard statements & R Phrases

Not applicable

#### Consulted literature:

#### Version:

#### Changes per section compared to last version:

#### Name of composer and manager in charge :

#### Printing date:

European Union Risk Assessment Report (EUR 21508 EN).  
Nr. 3.01 of 01.05.2020 (Replaces all preceding versions.)

# 1.2 (uses and authorisation numbers), Annex added

Mr W. van Loon. (wl@gentrochema.nl./tel +31 162 249020)  
07-05-2020

#### Used abbreviations

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No-Effect Concentration (REACH)

DMEL: Derived Minimum Effect Level

LOAEC: lowest observed adverse effect concentration


NOEC: No Observed Effect Concentration

NOEL: No observed Effect Level

IC50: Inhibitory concentration, 50 percent

LC50: Lethal concentration, 50 percent

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. It is intended to describe the product in respect of safety requirements only. None of the information is to be taken to constitute a guarantee concerning the properties of this product.

<b>SAFETY DATA SHEET</b>	In accordance with Regulation 1907/2006 (REACH), amended by Regulation 2015/830	
<b>SODIUM DICHROMATE</b>	3.01 / 20200501	

LD50: Lethal dose, 50 percent  
 EC50: Effect concentration, 50 percent

Gentrochemema BV



Brussels, 14.4.2020  
C(2020) 2088 final

ANNEX

**ANNEXES**

**to the**

**COMMISSION IMPLEMENTING DECISION**

**partially granting an authorisation for certain uses of sodium dichromate under  
Regulation (EC) No 1907/2006 of the European Parliament and of the Council  
(Gentrochema BV)**

## ANNEX

### Sodium dichromate-based surface treatment processes and required key functionalities

Type of process	Process	Key functionalities
<b>Pre-treatment</b>	Cleaning	These processes are pre-treatment processes used in conjunction with a main or post-treatment process. The key functionalities are defined by the subsequent processes.
	Pickling/Etching	
	Deoxidising	
	Desmutting	
	Stripping	
<b>Main treatment</b>	Chemical / Chromate Conversion Coating CCC – <b>Aluminium CCC</b>	Corrosion resistance
		Adhesion to subsequent layer
		Chemical resistance
		Active corrosion inhibition
		Resistivity
	Chromate Conversion Coating CCC – <b>Magnesium CCC</b>	Corrosion resistance
		Active corrosion inhibition
		Layer thickness
		Adhesion to subsequent layer
		Chemical resistance
		Resistivity
	Passivation of stainless steel	Corrosion resistance
		Adhesion to subsequent layer
		Embrittlement / heat treatment
	Electroplating processes	Hardness
		Layer thickness
Corrosion resistance		
Abrasion / wear resistance		
<b>Post-treatment</b>	Sealing after anodizing (with subsequent paint or unpainted)	Corrosion resistance
		Layer thickness
		Adhesion to subsequent layer
		Chemical resistance
	Chromate Rinsing after phosphating	Corrosion resistance
		Adhesion to subsequent layer
	Passivation of metallic coatings	Corrosion resistance
		Layer thickness
		Adhesion to subsequent layer
		Chemical resistance
		Temperature resistance
	Resistivity	