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

Product identifier

Product name: SODIUM DICHROMATE

REACH registered number(s): 01-2119435525-40-XXXX

CAS number: 10588-01-9

EINECS number: 234-190-3

Index number: 024-004-00-7

Synonyms: Sodium Dichromate

Relevant identified uses of the substance or mixture and uses advised against:

Use of substance / mixture: PC14: Metal surface treatment products, including galvanic and electroplating products.
PC15: Non-metal-surface treatment products.
PROC1: Use in closed process, no likelihood of exposure.

Company name:
Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification under CLP: Ox. Sol. 2: H272; Skin Corr. 1B: H314; Resp. Sens. 1: H334; Skin Sens. 1: H317; Acute Tox. 3: H301; Acute Tox. 4: H312; Acute Tox. 2: H330; Muta. 1B: H340; Carc. 1B: H350; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Repr. 1B: H360FD; STOT RE 1: H372; STOT SE 3: H335; Eye Dam. 1: H318

Most important adverse effects: May intensify fire; oxidiser. Toxic if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. May cause genetic defects. May cause cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

[cont…]

Label elements:

Hazard statements:

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.
H335: May cause respiratory irritation.
H340: May cause genetic defects.
H350: May cause cancer.
H360FD: May damage fertility. May damage 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.

Hazard pictograms:

GHS03: Flame over circle.
GHS05: Corrosion.
GHS06: Skull and crossbones.
GHS08: Health hazard.
GHS09: Environmental.

Signal words: Danger.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260: Do not breathe dust/fumes.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P284: Wear respiratory protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P362+P364: Take off contaminated clothing and wash it before reuse.

Other hazards: Danger of serious damage to health by prolonged exposure.

PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical identity: SODIUM DICHROMATE

CAS number: 10588-01-9

EINECS number: 234-190-3

REACH registered number(s): 01-2119435525-40-XXXX

[cont…]

4. FIRST AID MEASURES

Description of first aid measures:

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Get medical attention immediately.

Ingestion: Wash out mouth with water. Do not induce vomiting. Get medical attention immediately!

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing is difficult, give oxygen. Get medical attention immediately. Loosen tight clothing such as a collar, tie, belt or waistband. Do not employ artificial respiration mouth-to-mouth or mouth to nose. It may be hazardous to the person providing aid as the inhaled material is toxic and corrosive. Use a respiration bag or breathing device. Consult a doctor.

Most important symptoms and effects, both acute and delayed:

Skin contact: Causes severe skin burns and eye damage.

Eye contact: May cause serious eye damage, category 1.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed:

Immediate / special treatment: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Water.

Special hazards arising from the substance or mixture:

Exposure hazards: In combustion emits toxic fumes. Very toxic to aquatic life with long lasting effects.
Acids: Contact with metals produces hydrogen gas which may form explosive mixtures with air.
May release: Toxic/corrosive gases/vapours. Toxic metal oxide fumes.*.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Avoid any direct contact with the product. Do not inhale dust, fume, gas, mist, vapours, spray . Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

[cont…]

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust. If outside do not approach from downwind. Mark out the contaminated area with signs and prevent access to unauthorised personnel. If outside keep bystanders upwind and away from danger point.

Environmental precautions: Do not discharge into drains or rivers. Inform respective authorities in case of seepage into water course, sewage system or ground. This material and its container must be disposed of as hazardous waste. Knock down/dilute dust cloud with water spray. Prevent soil and water pollution. Avoid sub-soil penetration. Very toxic to aquatic life with long lasting effects. Dispose of this material and its container at hazardous or special waste collection point.

Methods and material for containment and cleaning up:

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

7. HANDLING AND STORAGE

Precautions for safe handling:

Handling requirements: Avoid direct contact with the substance. Handle and open container with care. Avoid the formation or spread of dust in the air. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in a cool, well-ventilated area. Keep container tightly closed. Keep away from food, drink and animal feeding stuffs. Keep away from : Alkaline, Oxidising agents, Chemicals (May decompose upon contact with: Acids (e.g., Carbonates, Cyanides, Sulphides).

Suitable packaging: Must only be kept in original packaging.

Specific end use(s): Refer to section 1.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Workplace exposure limits: Respirable dust

State	8-hour TWA:	15 min. STEL:	8-hour TWA:	15 min. STEL:
UK	0.05 mg/m3	-	-	-

DNEL/PNEC Values:

DNEL / PNEC: No data available.

[cont…]

Exposure controls:

Engineering measures: Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place. Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of the workday. Emergency eye wash facilities and safety showers should be available in the immediate vicinity of any potential exposure.

Respiratory protection: Ensure good ventilation Self-contained breathing apparatus must be available in case of emergency. Wear suitable respiratory equipment. Recommended filter type P3 (white)

Hand protection: Protective gloves. Nitrile gloves. When a brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374) is recommended When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374) is recommended. unsuitable are gloves made of the following materials: Natural rubber (Latex), leather, thick fabric gloves, PVA *

Eye protection: Safety glasses with face shield. Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Environmental: Ensure all engineering measures mentioned in section 7 of SDS are in place.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State:	Crystals	
Colour:	Orange	
Odour:	Odourless	
Evaporation rate:	No data available.	
Oxidising:	Oxidising (by EC criteria)	
Solubility in water:	235g/100g water	
Viscosity:	No data available.	
Boiling point/range°C:	No data available.	
Melting point/range°C:	357	
Flammability limits %:	**Lower:** No data available.	**Upper:** No data available.
Flash point°C:	No data available.	
Part.coeff. n-octanol/water:	No data available.	
Autoflammability°C:	No data available.	
Vapour pressure:	No data available.	
Relative density:	2.5g/cm3	
pH:	3.5 @ 10%	
VOC g/l:	No data available.	

Other information: Not applicable.

[cont…]

10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions. No additional information available.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:

Hazardous reactions: Reacts with: Alcohols, Amines, Alkalis, Combustible materials, Reducing agents. // Corrosive to metals // Release of poisonous gas, Toxic vapours are released *.

Conditions to avoid: Heat. Do not get in eyes, on skin or on clothing.

Incompatible materials

Materials to avoid: Keep away from: Strong acids. Reducing agents. Flammable materials. Strong oxidising agents.

Hazardous decomposition products: Thermal decomposition generates: Metal compounds (Toxic), Toxic metal oxide fumes. Toxic pyrolysis products.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicity values:

Route	Species	Test	Value	Units
oral	rat	LD50	86.5	mg/kg
DERMAL	RBT	LD50	<2000	mg/kg
VAPOURS	RAT	4H LC50	200	mg/l

Hazardous ingredients:

SODIUM DICHROMATE

DERMAL	RBT	LD50	<2000	mg/kg
VAPOURS	RAT	4H LC50	200	mg/l
oral	rat	LD50	86.5	mg/kg

Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM	Hazardous: calculated
Acute toxicity (ac. tox. 3)	ING	Hazardous: calculated
Acute toxicity (ac. tox. 2)	INH	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	INH DRM	Hazardous: calculated
Germ cell mutagenicity	-	Hazardous: calculated

[cont…]

Carcinogenicity	-	Hazardous: calculated
Reproductive toxicity	-	Hazardous: calculated
STOT-single exposure	INH	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

Symptoms / routes of exposure:

Skin contact: Causes severe skin burns and eye damage.

Eye contact: May cause serious eye damage, category 1.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: May cause sensitisation by inhalation and skin contact Contains hexavalent chromium.

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity values:

Species	Test	Value	Units
Fish	48H EC50	3.1	mg/l
Daphnia	48H EC50	0.1	mg/l

Persistence and degradability: Not biodegradable.

Bioaccumulative potential: Log Pow: Not established (bioaccumulation not established).

Mobility in soil:

Mobility: Very toxic to aquatic life with long lasting effects. Must not reach sewage water or drainage ditch undiluted or unneutralised Also poisonous for fish and plankton in water bodies.

Results of PBT and vPvB assessment

Persistence (P-): days

Half-life in marine water: <60

Persistence result: not P-

Bioaccumulation (B-):

Bioconcentration factor (BCF): No info

Bioaccumulation result: not B-

[cont…]

Toxicity (T-): mg/l
NOEC for marine or freshwater organisms: 09mg/l
Carc. cat. 1/2, Muta. cat 1/2, Tera. cat. 1/2/3, R48 (see s.15): Yes
Toxicity result: not T-

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:
Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
Recovery operations: Not applicable.
Disposal of packaging: Do not remove as household garbage. Do not allow product to reach sewage system. For disposal within the EC, the appropriate code according to the European Waste (EWC) should be used.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

UN number: UN3288

UN proper shipping name:
Shipping name: TOXIC SOLID, INORGANIC, N.O.S (SODI?UM DICHROMATE)

Transport hazard class(es):
Transport class: 6.1

Packing group: II

Environmentally hazardous: Yes
Marine pollutant: Yes

Special precautions for user:
Special precautions: No special precautions.
Tunnel code: D/E
Transport category: 2

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk: Not applicable.

[cont…]

15. REGULATORY INFORMATION

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

Specific regulations: This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XIV - LIST OF SUBSTANCES SUBJECT TO .AUTHORISATION

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:

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.
H335: May cause respiratory irritation.
H340: May cause genetic defects.
H350: May cause cancer.
H360FD: May damage fertility. May damage 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.

Legal disclaimer: The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.