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

Product identifier

Product name: SODIUM DICHROMATE
REACH registered name: SODIUM DICHROMATE
REACH registered number(s): 01-2119435525-40-XXXX
CAS number: 10588-01-9
Index number: 024-004-00-7

Relevant identified uses of the substance or mixture and uses advised against:
Use of substance / mixture: USE OF SUBSTANCE IS LIMITED TO THAT EVALUATED IN THE CSR

Company name: Nexchem Ltd
Unit 1 Underwood Court
Elm Tree Avenue
Glenfield
Leicester
Leicestershire
LE3 8SG
Tel: 0116 2311130
Fax: 0116 2311124
Emergency Tel: +44 (0) 116 2877916 or +44 (0) 7714 303742 (24 Hours)
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification under CLP: Ox. Liq. 3: H272; Acute Tox. 3: H301; Acute Tox. 2: H330; Resp. Sens. 1: H334; Muta. 1A: H340; Carc. 1B: H350; Repr. 1A: H360FD; STOT RE 1: H372; Skin Corr. 1B: H314; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Acute Tox. 4: H312; Skin Sens. 1: H317; STOT SE 3: H335; STOT SE 3: H336

Classification under CHIP: T+: R26; C: R34; T: R45; T: R46; T: R60; T: R25; T: R48/23

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

Label elements:
Label elements under CLP:
Hazard statements:
H272: May intensify fire; oxidiser.
H301: Toxic if swallowed.
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.
H360FD: May damage fertility. May damage the unborn child.
H372: Causes damage to organs through prolonged or repeated exposure.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
H312: Harmful in contact with skin.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.

Signal words:
Danger

Hazard pictograms:
GHS05: Corrosion
GHS06: Skull and crossbones
GHS08: Health hazard
GHS09: Environmental

Precautionary statements:
P221: Take any precaution to avoid mixing with.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303: IF ON SKIN (or hair):
P353: Rinse skin with.
P361: Remove immediately all contaminated clothing.
P305: IF IN EYES:
P351: Rinse cautiously with water for several minutes.
P338: Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor.
P320: Specific treatment is urgent (see on this label).
P403: Store in a well-ventilated place.
P233: Keep container tightly closed.
P501: Dispose of to.

Other hazards:
PBT:
This substance is not identified as a PBT substance.
3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:
Chemical identity: SODIUM DICHROMATE

4. FIRST AID MEASURES

Description of first aid measures:
Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.
Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.
Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Give 1 cup of water to drink every 10 minutes. Transfer to hospital as soon as possible.
Inhalation: Remove casualty from exposure ensuring one’s own safety whilst doing so. Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Most important symptoms and effects, both acute and delayed:
Skin contact: Irritation or pain may occur at the site of contact.
Eye contact: There may be irritation and pain.
Ingestion: Corrosive burns may appear around the lips. Damage to liver and kidneys may develop later.
Inhalation: There may be congestion of the lungs causing severe shortness of breath.
Delayed / immediate effects: Delayed effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed
Immediate / special treatment: Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Carbon dioxide.

Special hazards arising from the substance or mixture:
Exposure hazards: In combustion emits toxic fumes.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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. Mark out the contaminated area with signs and prevent access to unauthorised personnel.
Environmental precautions: Do not discharge into drains or rivers.

Methods and material for containment and cleaning up:
Clean-up procedures: Transfer to a suitable container. Do not use equipment in clean-up procedure which may produce sparks. Mix with sand or vermiculite.
Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

Precautions for safe handling:
Handling requirements: Avoid direct contact with the substance. Smoking is forbidden. Avoid the formation or spread of dust in the air.

Conditions for safe storage, including any incompatibilities:
Storage conditions: Ensure lighting and electrical equipment are not a source of ignition. Keep container tightly closed. Avoid contact with water or humidity.
Suitable packaging: Must only be kept in original packaging.
Specific end use(s): No data available.

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 - - -

Exposure controls:
Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Particle filter class P3S (EN143).
Hand protection: Protective gloves. PVC gloves.
Eye protection: Face-shield.
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: Characteristic odour
Oxidising: Oxidising (by EC criteria)
Solubility in water: Soluble
Boiling point/range°C: >400 Melting point/range°C: 100
Relative density: 1.2g/cm3 pH: 4.3@1%

[cont…]
10. STABILITY AND REACTIVITY

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions:
Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

Conditions to avoid: Sources of ignition.

Incompatible materials
Materials to avoid: Acids. Reducing agents.
Hazardous decomposition products: Contact with acids liberates toxic gas.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicity values:

<table>
<thead>
<tr>
<th>Route</th>
<th>Species</th>
<th>Test</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>oral</td>
<td>rat</td>
<td>LD50</td>
<td>59</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

Symptoms / routes of exposure:

Skin contact: Irritation or pain may occur at the site of contact.

Eye contact: There may be irritation and pain.

Ingestion: Corrosive burns may appear around the lips. Damage to liver and kidneys may develop later.

Inhalation: There may be congestion of the lungs causing severe shortness of breath.

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

Other information: Not applicable

12. ECOLOGICAL INFORMATION

Toxicity:

Ecotoxicity values:

<table>
<thead>
<tr>
<th>Species</th>
<th>Test</th>
<th>Value</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish</td>
<td>48H EC50</td>
<td>3.1</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: Soluble in water.

[cont…]
SAFETY DATA SHEET
Sodium Dichromate

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

Toxicity (T-):
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: T

PBT identification: This substance is not identified as a PBT substance.

Other adverse effects: Toxic to aquatic organisms

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:
Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.
Recovery operations: Storage of waste pending any of the other recovery operations (excluding temporary storage, pending collection, on the site where the waste is produced).
Waste code number: 06 03 13
Disposal of packaging: Arrange for collection by specialised disposal company.
NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

UN number: UN3085
UN proper shipping name: ENVIROMENTALLY HAZARDOUS SUBSTANCE
Shipping name: ENVIROMENTALLY HAZARDOUS SUBSTANCE
Transport hazard class(es):
Transport class: 6.1
Packing group: 111
Environmentally hazardous: No Marine pollutant: Yes
Special precautions for user: No special precautions.
Transport category: 2
15. REGULATORY INFORMATION

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

Specific regulations: This product is or contains a persistent organic pollutant according to Regulation (EC) No 850/2004.

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: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* 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.
H336: May cause drowsiness or dizziness.
H340: May cause genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H360FD: May damage fertility. May damage the unborn child.
H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
R25: Toxic if swallowed.
R26: Very toxic by inhalation.
R34: Causes burns.
R45: May cause cancer.
R46: May cause heritable genetic damage.
R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R50: May cause harm to the unborn child.
R60: May impair fertility.
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.