1. Identification

Product Name
Sodium dichromate dihydrate

Synonyms
Sodium bichromate

Recommended Use
Laboratory chemicals.

Uses advised against
No Information available

2. Hazard(s) Identification

Classification
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Label Element</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxidizing solids</td>
<td>Category 2</td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>Category 3</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity - Dusts and Mists</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin Corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>Category 1</td>
</tr>
<tr>
<td>Respiratory Sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>Category 1</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Reproductive Toxicity</td>
<td>Category 1B</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Target Organs - Respiratory system.</td>
<td>Category 1</td>
</tr>
<tr>
<td>Specific target organ toxicity - (repeated exposure)</td>
<td>Category 1</td>
</tr>
<tr>
<td>Target Organs - Liver, Kidney, Blood.</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Emergency Telephone Number
Chemtrec US: (800) 424-9300
Chemtrec EU: 001 (202) 483-7616
May cause an allergic skin reaction
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

Precautionary Statements

Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wear respiratory protection
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep/Store away from clothing/ other combustible materials
Take any precaution to avoid mixing with combustibles

Response
Immediately call a POISON CENTER or doctor/physician

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention

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

Ingestion
Rinse mouth
Do NOT induce vomiting

Fire
In case of fire: Use CO2, dry chemical, or foam for extinction

Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
Very toxic to aquatic life with long lasting effects
WARNING! This product contains a chemical known in the State of California to cause cancer, birth defects or other reproductive harm.

3. Composition / information on ingredients
## 4. First-aid measures

### General Advice
Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

### Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

### Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

### Inhalation
Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.

### Ingestion
Do not induce vomiting. Call a physician or Poison Control Center immediately.

### Most important symptoms/effects
Causes burns by all exposure routes. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

### Notes to Physician
Treat symptomatically

## 5. Fire-fighting measures

### Unsuitable Extinguishing Media
No information available

<table>
<thead>
<tr>
<th>Flash Point Method</th>
<th>No information available</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Autoignition Temperature</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Explosion Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper</td>
</tr>
<tr>
<td>Lower</td>
</tr>
</tbody>
</table>

### Oxidizing Properties
Oxidizer

<table>
<thead>
<tr>
<th>Sensitivity to Mechanical Impact</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sensitivity to Static Discharge</td>
<td>No information available</td>
</tr>
</tbody>
</table>

### Specific Hazards Arising from the Chemical
The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire fighting to enter drains or water courses.

### Hazardous Combustion Products
Highly toxic fumes Sodium oxides Chromium oxide

### Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>OX</td>
</tr>
</tbody>
</table>
6. Accidental release measures

**Personal Precautions**
Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation.

**Environmental Precautions**
Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment. Collect spillage.

**Methods for Containment and Clean Up**
Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

**Handling**
Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe vapors/dust. Avoid dust formation. Keep away from clothing and other combustible materials.

**Storage**
Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Do not store near combustible materials.

8. Exposure controls / personal protection

**Exposure Guidelines**

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>TWA: 0.05 mg/m³</td>
<td>(Vacated) Ceiling: 0.1 mg/m³ Ceiling: 0.1 mg/m³</td>
<td>IDLH: 15 mg/m³ TWA: 0.0002 mg/m³</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>TWA: 0.05 mg/m³</td>
<td>(Vacated) Ceiling: 0.1 mg/m³ Ceiling: 0.1 mg/m³</td>
<td>IDLH: 15 mg/m³ TWA: 0.0002 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Quebec</th>
<th>Mexico OEL (TWA)</th>
<th>Ontario TWAEV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
<td>TWA: 0.05 mg/m³</td>
</tr>
</tbody>
</table>

**Legend**

ACGIH - American Conference of Governmental Industrial Hygienists
OSHA - Occupational Safety and Health Administration
NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures**
Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

**Personal Protective Equipment**

**Eye/face Protection**
Tightly fitting safety goggles. Face-shield.

**Skin and body protection**
Long sleeved clothing.

**Respiratory Protection**
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

**Hygiene Measures**
Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

**Physical State**
Solid
**Appearance**
Orange

**Odor**
Odorless

**Odor Threshold**
No information available

**pH**
3.5-3.9  5% aq.sol

**Melting Point/Range**
357 °C / 674.6 °F

**Boiling Point/Range**
400 °C / 752 °F @ 760 mmHg

**Flash Point**
No information available

**Flammability (solid, gas)**
No information available

**Flammability or explosive limits**
Upper
No data available
Lower
No data available

**Vapor Pressure**
No information available

**Vapor Density**
Not applicable

**Specific Gravity**
No information available

**Solubility**
No information available

**Partition coefficient; n-octanol/water**
No data available

**Autoignition Temperature**

**Decomposition Temperature**
400 °C

**Viscosity**
Not applicable

**Molecular Formula**
Cr2 Na2 O7 . 2 H2 O

**Molecular Weight**
298

---

**10. Stability and reactivity**

**Reactive Hazard**
Yes

**Stability**
Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.

**Conditions to Avoid**

**Incompatible Materials**
Organic materials, Acids, Water, Strong bases, Acid anhydrides, Metals, Reducing agents, Powdered metals, Strong reducing agents, Combustible material

**Hazardous Decomposition Products**
Highly toxic fumes, Sodium oxides, Chromium oxide

**Hazardous Polymerization**
Hazardous polymerization does not occur.

**Hazardous Reactions**
None under normal processing.

---

**11. Toxicological information**

**Acute Toxicity**

**Product Information**

**Component Information**

<table>
<thead>
<tr>
<th>Component</th>
<th>LD50 Oral</th>
<th>LD50 Dermal</th>
<th>LC50 Inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate</td>
<td>LD50 = 46 mg/kg ( Rat )</td>
<td>LD50 = 960 mg/kg ( Rabbit )</td>
<td>LC50 = 0.124 mg/L ( Rat ) 4 h</td>
</tr>
</tbody>
</table>

**Toxicologically Synergistic Products**
No information available

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation**
Causes burns by all exposure routes

**Sensitization**
No information available

**Carcinogenicity**
The table below indicates whether each agency has listed any ingredient as a carcinogen.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Mexico</th>
</tr>
</thead>
</table>

---

Page 5 / 9
**Sodium dichromate dihydrate**

<table>
<thead>
<tr>
<th>Sodium dichromate</th>
<th>7789-12-0</th>
<th>Not listed</th>
<th>Known</th>
<th>A1</th>
<th>Not listed</th>
<th>A1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate</td>
<td>10588-01-9</td>
<td>Group 1</td>
<td>Known</td>
<td>A1</td>
<td>X</td>
<td>A1</td>
</tr>
</tbody>
</table>

**IARC: (International Agency for Research on Cancer)**
- Group 1 - Carcinogenic to Humans
- Group 2A - Probably Carcinogenic to Humans
- Group 2B - Possibly Carcinogenic to Humans

**NTP: (National Toxicity Program)**
- Known - Known Carcinogen
- Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**ACGIH: (American Conference of Governmental Industrial Hygienists)**
- A1 - Known Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Animal Carcinogen
- ACGIH: (American Conference of Governmental Industrial Hygienists)

**Mexico - Occupational Exposure Limits - Carcinogens**
- A1 - Confirmed Human Carcinogen
- A2 - Suspected Human Carcinogen
- A3 - Confirmed Animal Carcinogen
- A4 - Not Classifiable as a Human Carcinogen
- A5 - Not Suspected as a Human Carcinogen

**Mutagenic Effects**
- Mutagenic

**Reproductive Effects**
- Possible risk of impaired fertility.

**Developmental Effects**
- No information available.

**Teratogenicity**
- Teratogenic effects have occurred in experimental animals.

**STOT - single exposure**
- Respiratory system

**STOT - repeated exposure**
- Liver Kidney Blood

**Aspiration hazard**
- No information available

**Symptoms / effects, both acute and delayed**
- Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

**Endocrine Disruptor Information**
- No information available

**Other Adverse Effects**
- See actual entry in RTECS for complete information.

---

**12. Ecological information**

**Ecotoxicity**
- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

<table>
<thead>
<tr>
<th>Component</th>
<th>Freshwater Algae</th>
<th>Freshwater Fish</th>
<th>Microtox</th>
<th>Water Flea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate</td>
<td>Not listed</td>
<td>LC50: = 213 mg/L, 96h static (Lepomis macrochirus)</td>
<td>Not listed</td>
<td>EC50: = 1.4 mg/L, 24h (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: = 69 mg/L, 96h flow-through (Oncorhynchus mykiss)</td>
<td></td>
<td>EC50: = 0.098 - 0.129 mg/L, 48h (Daphnia magna)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50: = 33.2 mg/L, 96h flow-through (Pimephales promelas)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and Degradability**
- based on information available. May persist

**Bioaccumulation/ Accumulation**
- No information available.

**Mobility**
- Will likely be mobile in the environment due to its water solubility.
13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

<table>
<thead>
<tr>
<th>UN-No</th>
<th>UN3087</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>OXIDIZING SOLID, TOXIC, N.O.S.</td>
</tr>
<tr>
<td>Proper technical name</td>
<td>Sodium dichromate dihydrate</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>5.1</td>
</tr>
<tr>
<td>Subsidiary Hazard Class</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
</tr>
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</table>

TDG

<table>
<thead>
<tr>
<th>UN-No</th>
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<td>OXIDIZING SOLID, TOXIC, N.O.S.</td>
</tr>
<tr>
<td>Hazard Class</td>
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</tr>
<tr>
<td>Subsidiary Hazard Class</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing Group</td>
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</table>

IATA

<table>
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<tr>
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<tr>
<td>Proper Shipping Name</td>
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<tr>
<td>Hazard Class</td>
<td>5.1</td>
</tr>
<tr>
<td>Subsidiary Hazard Class</td>
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<tr>
<td>Packing Group</td>
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</table>

IMDG/IMO

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<th>UN3087</th>
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<tbody>
<tr>
<td>Proper Shipping Name</td>
<td>OXIDIZING SOLID, TOXIC, N.O.S.</td>
</tr>
<tr>
<td>Hazard Class</td>
<td>5.1</td>
</tr>
<tr>
<td>Subsidiary Hazard Class</td>
<td>6.1</td>
</tr>
<tr>
<td>Packing Group</td>
<td>II</td>
</tr>
</tbody>
</table>

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>NLP</th>
<th>PICCS</th>
<th>ENCS</th>
<th>AICS</th>
<th>IECSC</th>
<th>KECL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>X</td>
<td>X</td>
<td></td>
<td>234-190-3</td>
<td></td>
<td></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Y</td>
<td>X</td>
</tr>
</tbody>
</table>

Legend:

X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
P - Indicates a commenced PMN substance
R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.
T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.
XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)
<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA 12(b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>Section 6</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>Section 6</td>
</tr>
</tbody>
</table>

### SARA 313

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>7789-12-0</td>
<td>&gt;95</td>
<td>0.1</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>10588-01-9</td>
<td>-</td>
<td>0.1</td>
</tr>
</tbody>
</table>

### SARA 311/312 Hazard Categories

- Acute Health Hazard: Yes
- Chronic Health Hazard: Yes
- Fire Hazard: No
- Sudden Release of Pressure Hazard: No
- Reactive Hazard: Yes

### CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Hazardous Substances</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>-</td>
<td>-</td>
<td>X</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>X</td>
<td>10 lb</td>
<td>X</td>
<td>-</td>
</tr>
</tbody>
</table>

### Clean Air Act

<table>
<thead>
<tr>
<th>Component</th>
<th>HAPS Data</th>
<th>Class 1 Ozone Depletors</th>
<th>Class 2 Ozone Depletors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>X</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### OSHA Occupational Safety and Health Administration

<table>
<thead>
<tr>
<th>Component</th>
<th>Specifically Regulated Chemicals</th>
<th>Highly Hazardous Chemicals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate dihydrate</td>
<td>5 µg/m³ TWA 2.5 µg/m³ Action Level</td>
<td>-</td>
</tr>
<tr>
<td>Sodium dichromate</td>
<td>5 µg/m³ TWA 2.5 µg/m³ Action Level</td>
<td>-</td>
</tr>
</tbody>
</table>

### CERCLA

<table>
<thead>
<tr>
<th>Component</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA EHS RQs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium dichromate</td>
<td>10 lb</td>
<td>-</td>
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</table>

**California Proposition 65**

This product contains the following proposition 65 chemicals

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No</th>
<th>California Prop. 65</th>
<th>Prop 65 NSRL</th>
<th>Category</th>
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<td>Carcinogen Developmental Female Reproductive Male Reproductive</td>
<td>0.001 µg/day</td>
<td>Developmental Carcinogen</td>
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<td>0.001 µg/day</td>
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### U.S. State Right-to-Know Regulations

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<th>Component</th>
<th>Massachusetts</th>
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</table>

### U.S. Department of Transportation
Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security
This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade
No information available

Canada
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class
C  Oxidizing materials
D1A  Very toxic materials
D2A Very toxic materials
E  Corrosive material

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Regulatory Affairs
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Email: EMSDS.RA@thermofisher.com

Creation Date
16-Nov-2010
Revision Date
12-May-2016
Print Date
12-May-2016
Revision Summary
This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS