

SAFETY DATA SHEET

Preparation Date: 5/15/2015

Revision Date: 5/15/2015

Revision Number: G1

Product identifier

Product code: S1268
Product Name: SODIUM DICHROMATE, GRANULAR, TECHNICAL

Other means of identification

Synonyms: Sodium Bichromate dihydrate
 Chromic acid (H₂Cr₂O₇), disodium salt, dihydrate
 Dichromic acid, disodium salt, dihydrate

CAS #: 7789-12-0
RTECS # HX7750000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemicals and Laboratory Products, Inc.
 14422 South San Pedro St.
 Gardena, CA 90248
 (310) 516-8000

Order Online At: <https://www.spectrumchemical.com>

Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

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

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Gases)	Category 1
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements**Danger****Hazard statements**

Fatal if swallowed
Toxic in contact with skin
Fatal if inhaled
Causes severe skin burns and eye damage
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause genetic defects
May cause cancer
May damage fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure
May intensify fire; oxidizer

**Hazards not otherwise classified (HNOC)**

Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 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 protective gloves/protective clothing/eye protection/face protection
 Wear respiratory protection
 In case of inadequate ventilation wear respiratory protection
 Contaminated work clothing should not be allowed out of the workplace
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep/Store away from clothing/ .? /combustible materials
 Take any precaution to avoid mixing with combustibles .?

Precautionary Statements - Response

Specific treatment (see .? on this label)
 Specific treatment is urgent (see .? on this label)
 Immediately call a POISON CENTER or doctor/physician
 Specific treatment (see .? on this label)
 In case of fire: Use water to extinguish. Do not use dry chemicals or foams. CO₂ or Halon may provide limited control.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER or doctor/physician.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 Wash contaminated clothing before reuse
 If skin irritation or rash occurs: Get medical advice/attention
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Rinse mouth
 Do NOT induce vomiting

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS
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Components	CAS-No.	Weight %	Trade Secret
Sodium dichromate, dihydrate 7789-12-0	7789-12-0	100	*

4. FIRST AID MEASURES

First aid measures**General Advice:**

Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact:

Wash off immediately with soap and plenty of water. Continue flushing with plenty of water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.

Eye Contact:

Flush eye with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce 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. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately. Fatal if swallowed.

Most important symptoms and effects, both acute and delayed

Symptoms Severe skin and eye irritation or burns. May cause allergic skin reaction. Severe irritation of the upper respiratory tract. May cause allergic respiratory reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May affect the liver. It may affect the kidneys. Causes digestive (gastrointestinal) tract irritation. Can burn mouth, throat, and stomach. May cause gastrointestinal (digestive) tract burns.

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water. CO2 may be of no value in extinguishing fires involving oxidizers and may only provide limited control.

Unsuitable Extinguishing Media: Dry chemical. Foam. Halons.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: Oxidizer. Keep away from combustible materials (wood, paper, oil, clothing, etc.)
The product is not flammable, but it may cause fire when in contact with other material
Contact with combustible or organic materials may cause fire
Will accelerate burning when involved in a fire
Container explosion may occur under fire conditions or when heated

Special Protective Actions for Firefighters

Specific Methods: For large fires, flood fire area with water from a distance. Cool affected containers with flooding quantities of water. Do not get water inside containers. **DO NOT** use combustible materials such as sawdust.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Remove all sources of ignition. Keep combustibles (wood, paper, oil, clothing, etc.) away from spilled material.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers.

Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Do not use combustible materials such as paper towels, sawdust, clothing, etc. to clean up spill. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from combustible material. Do not breathe vapours/dust. Do not ingest. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Deliquescent. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segregated and approved area. Do not store near combustible materials. Store away from incompatible materials.

Incompatible Materials:

Reducing agents. Combustible materials. Organic materials. Powdered metals. Acids. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sodium dichromate, dihydrate - 7789-12-0	2.5 ug/m ³ TWA (Chromium VI compounds) Action level 5 ug/m ³ TWA (Chromium VI compounds)	15 mg/m ³ IDLH (as Cr(VI)-chromates) potential occupational carcinogen	0.05 mg/m ³ TWA (Chromium VI water soluble inorganic compounds)	None

Canada

Components	Alberta	British Columbia	Ontario	Quebec

Sodium dichromate, dihydrate - 7789-12-0	0.05 mg/m ³ TWA (Chromium VI water soluble compounds)	0.025 mg/m ³ TWA (Chromium VI water soluble inorganic compounds) 0.1 mg/m ³ Ceiling (Chromium VI water soluble inorganic compounds)	0.05 mg/m ³ TWA (Chromium VI water soluble inorganic compounds)	0.05 mg/m ³ TWAEV (Chromium VI water soluble inorganic compounds)
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Australia and Mexico

Components	Australia	Mexico
Sodium dichromate, dihydrate 7789-12-0	0.05 mg/m ³ TWA (Chromium VI water soluble compounds)	0.05 mg/m ³ TWA (Chromium VI water soluble compounds)

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles.

Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.

Respiratory protection: Wear respirator with dust filter..

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state: Solid.	Appearance: Granular. Crystals.	Color: Red. Reddish-orange.
Odor: Odorless.	Taste No information available	Molecular/Formula weight: 298.00
Formula: Na ₂ Cr ₂ O ₇ ·2H ₂ O	Flash point (°C): No data available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Lower Explosion Limit (%): No information available	Upper Explosion Limit (%): No information available
Autoignition Temperature (°C/°F): No information available	pH: No information available	Melting point/range(°C/°F): 357 °C/674.6 °F
Boiling point/range(°C/°F): No information available	Decomposition temperature(°C/°F): 400 °C/752 °F	Bulk density: No information available
Specific gravity: No information available	Density (g/cm³): 2.35	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Easily soluble in cold water Insoluble in alcohol	

10. STABILITY AND REACTIVITY

Reactivity

It may react violently with hydrazine.

Sodium dichromate, anhydrous, forms a violent reaction or ignition with the following:

Boron + silicon (pyrotechnic)

Organic residues + sulfuric acid

2-Propanol + sulfuric acid

Sulfuric acid + trinitrotoluene

Sodium dichromate is incompatible with hydroxylamine, acetic anhydride.

Sodium dichromate forms potentially explosive reactions with the following:

Acetic anhydride

Ethanol + sulfuric acid + heat

Hydrazine

Reactive with acids

Reacts with bases

Reacts violently with combustibles

Reactive with organic materials

Reactive with metals

Chemical stability

Stability:

Stable under recommended storage conditions

Possibility of Hazardous Reactions:

Hazardous polymerization does not occur

Conditions to avoid:

Avoid dust formation. Contact with combustible materials (wood, paper, oil, clothing, etc.). Exposure to moist air. Exposure to moisture. Incompatible materials.

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Incompatible Materials: Reducing agents. Combustible materials. Organic materials. Powdered metals. Acids. Bases.

Hazardous decomposition products: Nitrogen oxides (NOx). Sodium oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation. Skin.

Acute Toxicity

Component Information

Sodium dichromate, dihydrate - 7789-12-0

LD50/oral/rat = 46-50 mg/kg (for Sodium Dichromate anhydrous (CAS number 10588-01-9))

LD50/oral/mouse = No information available

LD50/dermal/rat = 80 mg/mg (for Sodium Dichromate anhydrous (CAS number 10588-01-9))

LD50/dermal/rabbit = 960-1000 mg/kg (for Sodium Chromate anhydrous (CAS number 10588-01-9))

LC50/inhalation/rat = 0.124 mg/L 4 h (For Sodium Dichromate anhydrous (CAS number 10588-01-9))

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = No information available

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = No information available

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

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Symptoms

Skin Contact:	Can severely irritate and burn the skin.. Toxic in contact with skin.
Eye Contact:	Can severely irritate and burn the eyes with possible eye damage..
Inhalation	Fatal if inhaled. Can irritate the nose, throat and lungs causing coughing, wheezing, and/or shortness of breath. May cause ulceration and perforation of the nasal septum if inhaled in large quantities.
Ingestion	Fatal if swallowed. Causes gastrointestinal tract irritation and burns. May affect liver and urinary system (kidney damage).
Aspiration hazard	No information available

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

Chronic Toxicity	Prolonged or repeated skin contact can cause blisters, and deep ulcers and may cause skin sensitization, an allergic reaction. Prolonged or repeated inhalation may cause asthma-like allergy. Future exposures can cause asthma attacks with shortness of breath, wheezing, cough, and/or chest tightness. Repeated or prolonged ingestion may cause kidney damage and affect the liver..
Sensitization:	May cause sensitization by inhalation and skin contact
Mutagenic Effects:	May affect genetic material Mutations in microorganisms Experiments with bacteria and/or yeast have shown mutagenic effects Experiments with human lymphocytes have shown mutagenic effects Sister Chromatid Exchange: Hamster ovary (RTECS)

Carcinogenic effects: Carcinogenic.

Components	ACGIH - Carcinogens	IARC	NTP	OSHA HCS - Carcinogens	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
Sodium dichromate, dihydrate	A1- Confirmed Human Carcinogen (Chromium VI water soluble inorganic compounds)	Group 1- Monograph 100C [2012]; Monograph 49 [1990] (evaluated as group - Chromium VI compounds)	Clear Evidence of Carcinogenicity	Present (Chromium VI compounds)	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity May damage fertility or the unborn child

Reproductive Effects:	May cause adverse reproductive effects. May impair fertility.
Developmental Effects:	May cause adverse developmental effects May cause harm to the unborn child
Teratogenic Effects:	No information available

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Specific Target Organ Toxicity

STOT - single exposure No information available
STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.
Target Organs: Kidneys. Liver. Heart. Respiratory system.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: No data available.
Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium dichromate, dihydrate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s. (Sodium Dichromate)
Hazard Class: 5.1
Subsidiary Risk: 6.1
Packing Group: II
ERG No: 141
Marine Pollutant No data available
DOT RQ (lbs): No information available
Symbol(s): G

TDG (Canada)

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s.
Hazard Class: 5.1
Subsidiary Risk: (6.1)
Packing Group: II

Product code: S1268

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14. TRANSPORT INFORMATION

Description: No information available

ADR

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s.
Hazard Class: 5.1
Packing Group: II
Subsidiary Risk: 6.1
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s.
Hazard Class: 5.1
Subsidiary Risk: 6.1
Packing Group: II
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s.
Hazard Class: 5.1
Subsidiary Risk: 6.1
Packing Group: II
Classification Code: No information available
Description: No information available

ICAO

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s.
Hazard Class: 5.1
Subsidiary Risk: 6.1
Packing Group: II
Description: No information available

IATA

UN-No: UN3087
Proper Shipping Name: Oxidizing solid, toxic, n.o.s.
Hazard Class: 5.1
Subsidiary Risk: 6.1
Packing Group: II
ERG Code: 5P
Description: No information available

15. REGULATORY INFORMATION

International Inventories

Product code: S1268

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Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium dichromate, dihydrate	Not Listed	Not present	Present	Not present	Present	Present	Not present

U.S. Regulations

Sodium dichromate, dihydrate

Massachusetts EHS: carcinogen; extraordinarily hazardous

New Jersey RTK Hazardous Substance List: sn 2245 (as chromium compounds)
sn 3575 (as chromium VI compounds)

New Jersey (EHS) List: SN 2245 500 lb TPQ (as chromium compounds)

New Jersey - Discharge Prevention - List of Hazardous Substances: Present (as chromium compounds)

Pennsylvania RTK: Present (as chromium compounds)

Pennsylvania RTK - Environmental Hazard List Present (chromium compounds and chromium VI compounds)

Pennsylvania RTK - Special Hazardous Substances Present (chromium VI compounds)

Minnesota - Hazardous Substance List: carcinogen (as Chromium VI compounds)

Louisiana Reportable Quantity List for Pollutants: 100 lb. RQ (as Chromium compounds)

California Directors List of Hazardous Substances: Present (as Chromium VI compounds)

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sodium dichromate, dihydrate	Present (as Chromium hexavalent compounds)			

CERCLA/SARA

Components	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting <i>de minimis</i>
Sodium dichromate, dihydrate	None	None	None	None	0.1% de minimus concentraton (Chromium VI compounds)

U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium dichromate, dihydrate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

- C Oxidizing materials
- D1A Very toxic materials
- D2A Very toxic materials
- D2B Toxic materials

Sodium dichromate, dihydrate

C D1A D2A D2B

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

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Sodium dichromate, dihydrate

Inventory

Components	Canada (DSL)	Canada (NDSL)
Sodium dichromate, dihydrate	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium dichromate, dihydrate	Not listed	Not listed

EU Classification

R-phrase(s)

- R 8 - Contact with combustible material may cause fire.
- R21 - Harmful in contact with skin.
- R25 - Toxic if swallowed.
- R26 - Very toxic by inhalation.
- R34 - Causes burns.
- R45 - May cause cancer.
- R46 - May cause heritable genetic damage.
- R60 - May impair fertility.
- R61 - May cause harm to the unborn child.
- R49 - May cause cancer by inhalation.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R42/43 - May cause sensitization by inhalation and skin contact.
- R48/23 - Toxic: danger of serious damage to health by prolonged exposure through inhalation.

S -phrase(s)

- S53 - Avoid exposure - obtain special instructions before use.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S60 - This material and its container must be disposed of as hazardous waste.
- S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Components	Classification	Concentration Limits:	Safety Phrases
Sodium dichromate, dihydrate	O; R8Cat.2;R45Cat.2; R60-61 Muta. Cat.2;R46 N;R50-53 R42/43; 25-48/23 T+;R26 T;R25 Xn;R21 C; R34	10%<=C: C; R34 5%<=C<10%: Xi; R:36/37/38 0.2%<=C: R42/43	S53-S45-S60-S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

T+ - Very toxic.

T - Toxic

Xn - Harmful.

Xi - Irritant.

O - Oxidising.

**16. OTHER INFORMATION**

Preparation Date: 5/15/2015
Revision Date: 5/15/2015
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet