

SAFETY DATA SHEET

Preparation Date: 8/5/2015

Revision Date: 2/2/2018

Revision Number: G3

1. IDENTIFICATION

Product identifier

Product code: S1245
Product Name: SODIUM CHROMATE, CRYSTAL, REAGENT

Other means of identification

Synonyms: Chromic acid, disodium salt, tetrahydrate
 Sodium chromate tetrahydrate
CAS #: 10034-82-9
RTECS # GB2958300
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: Wood preservation. Paints. Inks. Leather tanning.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 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 according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 2
Acute toxicity - Inhalation (Gases)	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 1B
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 1

Label elements

Danger

Hazard statements

Toxic if swallowed
Fatal 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



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
Do not eat, drink or smoke when using this product
Wear respiratory protection
Wear protective gloves/protective clothing/eye protection/face protection
Do not get in eyes, on skin, or on clothing
Do not breathe dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician
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.
Immediately call a POISON CENTER or doctor/physician
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep 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

Product code: S1245

Product name: SODIUM
CHROMATE, CRYSTAL, REAGENT

2 / 15

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

Components	CAS-No.	Weight %
Sodium Chromate Tetrahydrate	10034-82-9	100

4. FIRST AID MEASURES

First aid measures

- General Advice:** National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Skin Contact:** Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately.
- Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
- Inhalation:** Move to fresh air. 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:** Toxic if swallowed. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a physician or Poison Control Center immediately.

Most important symptoms and effects, both acute and delayed

- Symptoms**
- Severe skin and eye irritation or burns
 - Chronic sores (ulcers) on the skin
 - May affect the liver
 - It may affect the kidneys
 - May cause allergic respiratory reaction
 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 - May cause an allergic skin reaction
 - Causes digestive (gastrointestinal) tract irritation
 - May cause gastrointestinal (digestive) tract burns
 - Can burn mouth, throat, and stomach
 - May cause abdominal pain, nausea, vomiting, diarrhea
 - May cause epigastric pain
 - gastroenteritis
 - Sore throat
 - Thirst
 - It may affect the blood
 - Somnolence
 - May affect the cardiovascular system
 - May cause mydriasis (dilated pupils)
 - Perforation of the nasal septum if inhaled in excessive quantities

Indication of any immediate medical attention and special treatment needed

Product code: S1245

Product name: SODIUM
CHROMATE, CRYSTAL, REAGENT

3 / 15

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:

The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media:

No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products:

If it is involved in a fire the following can be released: Sodium Oxides. Chromium oxides.

Specific hazards:

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. When heated to decomposition it emits toxic fumes. Toxic chromium oxide fumes may form in fire. Hydrazine is decomposed explosively by chromates.

Special Protective Actions for Firefighters

Specific Methods:

No information available.

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:

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

Environmental precautions

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

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

Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. 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. Remove all sources of ignition. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Use only in well-ventilated areas. Keep away from heat and sources of ignition. Keep away from combustible material. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

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. Store away from incompatible materials.

Incompatible Materials:

Reducing agents
Organic materials
Combustible materials

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Chromate Tetrahydrate	10034-82-9	0.1 mg/m ³ Ceiling 5 ug/m ³ TWA	0.0002 mg/m ³ TWA (as Cr)	0.05 mg/m ³ TWA (as Cr)	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Chromate Tetrahydrate	10034-82-9	0.05 mg/m ³ TWA (as Cr)	0.1 mg/m ³ Ceiling (as Cr) 0.025 mg/m ³ TWA (as Cr)	0.05 mg/m ³ TWA (as Cr)	0.05 mg/m ³ TWAEV (as Cr)

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium Chromate Tetrahydrate	10034-82-9	0.05 mg/m ³ TWA (as Cr)	0.05 mg/m ³ TWA (as Cr)

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation, especially in confined areas. 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:	Gloves Long sleeved clothing Chemical resistant apron
Respiratory protection:	Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands and face before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Crystals.	Color: Yellow.
Odor: Odorless.	Taste No information available.	Formula: Na ₂ CrO ₄ ·4H ₂ O
Molecular/Formula weight: 234.06 g/mol	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%): No information available	Melting point/range(°C/°F): No information available	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): No information available	Bulk density: No information available	Density (g/cm³): No information available
Specific gravity: No information available	pH: No information available	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: Soluble in Water Slightly soluble in alcohol	

10. STABILITY AND REACTIVITY

Reactivity

Reactive with reducing agents, combustible materials, and organic materials.

Chemical stability

Product code: S1245

Product name: SODIUM
CHROMATE, CRYSTAL, REAGENT

6 / 15

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Ignition sources. Incompatible materials. Contact with combustible materials (wood, paper, oil, clothing, etc.).

Incompatible Materials: Reducing agents
Organic materials
Combustible materials

Hazardous decomposition products: Sodium oxides. Chromium oxides.

Other Information

Corrosivity: Non-corrosive in the presence of glass

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 Chromate Tetrahydrate	
CAS-No.	10034-82-9

LD50/oral/rat = No information available

LD50/oral/mouse = No information available

LD50/dermal/rabbit = 101 mg/kg (RTECS)

LD50/dermal/rat = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = 136 mg/kg oral LD50 Rat for Sodium Chromate, anhydrous (CAS no. 7775-11-3)(from LOLI and European Chemicals Bureau IUCLID dataset)

104 mg/m³ Inhalation LC50 Rat for Sodium Chromate, anhydrous (CAS no. 7775-11-3)(from LOLI and European Chemicals Bureau IUCLID dataset)

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 = 101 mg/kg

LD50/dermal/rat

VALUE -Acute Tox Dermal = No information available

Product code: S1245

Product name: SODIUM
CHROMATE, CRYSTAL, REAGENT

7 / 15

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**Symptoms**

Skin Contact:	Fatal in contact with skin. Fatal if absorbed through skin. Causes severe irritation and burns. Contact with broken skin may cause ulcers (chromic sores) and absorption, which may cause systemic poisoning affecting behavior/central nervous system(muscle weakness, somnolence), kidneys and liver and respiration.
Eye Contact:	Causes severe irritation and burns. Contact can cause blurred vision, redness, pain ,severe irritation, conjunctivitis, and corneal tissue burns. It may cause corneal injury or blindness.
Inhalation	Fatal if inhaled. Irritating to respiratory system. It is destructive to the tissues of the mucous membranes and upper respiratory tract. It may cause ulceration and perforation of the nasal septum. Symptoms may include sore throat, coughing, shortness of breath, and labored breathing. It may cause pulmonary edema, and sensitization or allergic asthma.
Ingestion	Toxic if swallowed. Ingestion can cause severe burns of the mouth, throat, and stomach, leading to death. It can cause sore throat, intense thirst, muscle cramps, vomiting, nausea diarrhea, violent gastroenteritis, violent epigastric pain, peripheral vascular collapse, liver damage (elevated liver enzymes, acute hepatic failure), acute renal failure, renal tubular necrosis, mydriasis, and may affect behavior/central nervous system (somnolence, dizziness, coma), respiration (respiratory distress syndrome), cardiovascular system (hypotension or hypertension, dysrhythmia, circulatory collapse, shock), and blood (thrombocytopenia and possibly leukocytosis).
Aspiration hazard	No information available.

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

Chronic Toxicity	Chronic inhalation may also result in perforation of the nasal septum. May cause ulceration of the skin. Ulcerations at first may be painless, but may penetrate to the bone producing "chromic holes". Chronic exposure may cause liver and kidney damage. Skin: Sensitizer. May cause allergic skin reaction (allergic contact dermatitis). Prolonged or repeated inhalation can cause respiratory tract irritation, pulmonary fibrosis, emphysema, and asthma. Prolonged or repeated inhalation may cause asthma-like allergy and asthma attacks with shortness of breath, difficulty breathing, wheezing, coughing, and/or chest tightness.
Sensitization:	May cause sensitization by inhalation and skin contact.
Mutagenic Effects:	May cause genetic defects DNA damage - hamster ovary Morphological Transformation Substances - hamster embryo DNA Damage - Human Fibroblast Experiments with bacteria and/or yeast have shown mutagenic effects

Mutations in microorganisms

Carcinogenic effects: Carcinogenic. May cause cancer.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Chromate Tetrahydrate	10034-82-9	Group 1 - Carcinogenic to Humans - Monograph 100C [2012]; Monograph 49 [1990] (chromium VI compounds)	A1 - Confirmed Human Carcinogen (Chromium (VI) inorganic compounds soluble in water)	Known Human Carcinogen (Chromium VI compounds)	Present (chromium 0.05 mg/m ³ TWA (as CrVI 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
Developmental Effects: May cause adverse developmental effects
Teratogenic Effects: No information available

Specific Target Organ Toxicity

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

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 Do not re-use empty containers

Product code: S1245

Product name: SODIUM
CHROMATE, CRYSTAL, REAGENT

9 / 15

Dispose of as unused product.

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Chromate Tetrahydrate	10034-82-9	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3288
Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Subsidiary Class: No information available
Packing group: II
Emergency Response Guide Number: 151
Marine Pollutant: Severe Marine Pollutant
DOT RQ (lbs): No information available
Special Provisions: IB8, IP2, IP4, T3, TP33
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.
Description: UN3288, Toxic solid, inorganic, n.o.s. (Sodium Chromate Tetrahydrate), 6.1, II

TDG (Canada)

UN-No: UN3288
Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant: No Information available
Description: UN3288, Toxic solid, inorganic, n.o.s. (Sodium Chromate Tetrahydrate), 6.1, II

ADR

UN-No: UN3288
Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Packing Group: II
Subsidiary Risk: No information available
Special Provisions: 274
Description: UN3288, Toxic solid, inorganic, n.o.s. (Sodium Chromate Tetrahydrate), 6.1, II, ENVIRONMENTALLY HAZARDOUS

IMO / IMDG

UN-No: UN3288
Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: II
Marine Pollutant: No information available
EMS: F-A
Special Provisions: 274
Description: UN3288, Toxic solid, inorganic, n.o.s. (SODIUM CHROMATE TETRAHYDRATE), 6.1, II, Marine pollutant

RID

UN-No: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: II
Special Provisions 274
Description: UN3288, Toxic solid, inorganic, n.o.s. (Sodium Chromate Tetrahydrate), 6.1, II, ENVIRONMENTALLY HAZARDOUS

ICAO

UN-No: UN3288
Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: II
Description: UN3288, Toxic solid, inorganic, n.o.s. (Sodium Chromate Tetrahydrate), 6.1, II
Special Provisions A3, A5

IATA

UN-No: UN3288
Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Sodium Chromate)
Hazard Class: 6.1
Subsidiary Risk: No information available
Packing Group: II
ERG Code: 6L
Special Provisions No information available
Description: UN3288, Toxic solid, inorganic, n.o.s. (Sodium Chromate Tetrahydrate), 6.1, II

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Chromate Tetrahydrate	10034-82-9	Not Listed	Not present	Present	Not present	Present	Present	Not present

U.S. Regulations

Sodium Chromate Tetrahydrate

- New Jersey RTK Hazardous Substance List:** sn 3575 (chromium VI compounds)
sn 2245 (chromium compounds)
- New Jersey (EHS) List:** 2245 500lb TPQ (chromium compounds)
- New Jersey - Discharge Prevention - List of Hazardous Substances:** Present (chromium compounds)
- Pennsylvania RTK:** Environmental hazard; Special Hazardous Substances (chromium VI compounds)
- Pennsylvania RTK - Environmental Hazard List** Present (chromium and chromium VI compounds)
- Pennsylvania RTK - Special Hazardous Substances** Present (chromium VI compounds)
- Minnesota - Hazardous Substance List:** Carcinogen (as Cr)
- Louisiana Reportable Quantity List for Pollutants:** 100 lb. RQ (chromium compounds)
- California Directors List of Hazardous Substances:** Present (as Chromium 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 can expose you to chemicals including (see table below) which is (are) known to the State of California to cause cancer. For more information go to www.p65warnings.ca.gov.

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

 **WARNING:** This product can expose you to chemicals including (see table below) which is (are) known to the State of California to cause birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
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Product code: S1245

Product name: SODIUM CHROMATE, CRYSTAL, REAGENT

				Reproductive Toxicity	Reproductive Toxicity:
Sodium Chromate Tetrahydrate	10034-82-9	Not Listed	developmental toxicity (Chromium (VI) compounds	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	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 de minimis
<i>Sodium Chromate Tetrahydrate</i>	10034-82-9	10 lb. final RQ; 4.54 kg final RQ	None	None	Chromium VI compounds	0.1%

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Chromate Tetrahydrate	10034-82-9	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Sodium Chromate Tetrahydrate
10034-82-9 (100)

WHMIS 2015 Hazard Classification
For Sodium Chromate, anhydrous (CAS number 7775-11-3:
Oxidizing solids - Undefined: Oxidizing solids - undefined category (hazard class was established from consulted scientific literature but did not allow to specify hazard category); Acute toxicity - Oral - Category 2: H300 Fatal if swallowed. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Acute toxicity - Inhalation - Category 2: H330 Fatal if inhaled. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Skin corrosion/irritation - Category 2: H315 Causes skin irritation. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Respiratory sensitizers - Category 1: H334 May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Skin sensitizers - Category 1A: H317 May cause allergic skin reaction. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Germ cell mutagenicity - Category 2: H341 Suspected of causing genetic defects. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Carcinogenicity - Category 1A: H350 May cause cancer. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Reproductive Toxicity - Category 1: H360 May damage fertility or the unborn child. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Reproductive Toxicity - Category 1B: H360 May damage fertility or the unborn child. (classification is based on available data for all water-soluble Hexavalent

chromium (Cr(VI)) as Potassium dichromate); Reproductive Toxicity - Category 2: H361 Suspected of damaging fertility or the unborn child. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Specific target organ toxicity - Single exposure - Category 3: H335 May cause respiratory irritation. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate); Specific target organ toxicity - Repeated exposure - Category 2: H373 May cause damage to organs through prolonged or repeated exposure. (classification is based on available data for all water-soluble Hexavalent chromium (Cr(VI)) as Potassium dichromate)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D1A Very toxic materials
D2A Very toxic materials
D2B Toxic materials

Components

Sodium Chromate Tetrahydrate

WHMIS 1988

For Sodium Chromate, anhydrous (CAS no. 7775-11-3):
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.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Sodium Chromate Tetrahydrate	10034-82-9	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Sodium Chromate Tetrahydrate	10034-82-9	Present
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Chromate Tetrahydrate	10034-82-9	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Chromate Tetrahydrate	10034-82-9	For Chromium VI compounds: Skin sensitizers - Skin Sens. 1: H317 May cause allergic skin reaction. (except Barium chromate and those specified elsewhere in this Annex); Carcinogenicity - Inhalation - Carc. 1B: H350 May cause cancer by inhalation. (except Barium chromate and compounds specified elsewhere in this Annex); Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life. (except Barium chromate and compounds specified elsewhere in this Annex); Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (except Barium chromate and compounds

EU - CLP (1272/2008)

R-phrase(s)

- R42 - May cause sensitization by inhalation.
- R43 - May cause sensitization by skin contact.
- R45 - May cause cancer.
- R49 - May cause cancer by inhalation.
- R50 - Very toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R60 - May impair fertility.
- R61 - May cause harm to the unborn child.
- R46 - May cause heritable genetic damage.
- R48 - Danger of serious damage to health by prolonged exposure.

S -phrase(s)

- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S53 - Avoid exposure - obtain special instructions before use.
- 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.
- S 1/2 - Keep locked up and out of the reach of children.
- S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Sodium Chromate Tetrahydrate	10034-82-9	For Chromium VI compounds: R43 Carc.Cat.2; R49 N; R50-53 For Sodium Chromate, anhydrous (CAS number 7775-11-3): Xn; R21 T; R25-48/23 T+; R26 C; R34 R42/43 Carc.Cat.2; R45 Muta.Cat.2; R46 N; R50-53 Repr.Cat.2; R60-61	No information	For Chromium VI compounds: S: 53-45-60-61

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

Indication of danger:

- T+ - Very toxic.
- N - Dangerous for the environment.

T+



N



16. OTHER INFORMATION

Preparation Date: 8/5/2015
Revision Date: 2/2/2018
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