

# Safety Data Sheet

According to Canadian Hazardous Products Regulations and WHMIS 2015

Initial preparation date: 02.01.2018

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## Sodium Dichromate, Lab Grade

### SECTION 1: Identification

#### Product identifier

**Product name:** Sodium Dichromate, Lab Grade

**Product code:** S25546

#### Recommended use of the product and restriction on use

**Relevant identified uses:** Not determined or not applicable.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

##### Manufacturer:

AquaPhoenix Scientific  
860 Gitts Run Road  
Hanover  
PA 17331  
(717) 632-1291

##### Supplier:

Fisher Science Education  
6771 Silver Crest Road  
Nazareth  
PA 18064  
800 955-1177

#### Emergency telephone number:

**United States**

Emergency Telephone No.: 800-255-3924

### SECTION 2: Hazard identification

#### GHS classification:

Oxidizing solids, category 2  
Acute toxicity (oral), category 2  
Acute toxicity (dermal), category 4  
Acute toxicity (inhalation), category 4  
Skin corrosion, category 1B  
Skin sensitization, category 1  
Serious eye damage, category 1  
Respiratory sensitization, category 1  
Germ cell mutagenicity, category 1B  
Carcinogenicity, category 1B  
Reproductive toxicity, category 1B  
Specific target organ toxicity - repeated exposure, category 1  
Acute aquatic hazard, category 1  
Chronic aquatic hazard, category 1

#### Label elements

##### Hazard pictograms:



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**Signal word:** Danger

### Hazard statements:

- H272 May intensify fire; oxidizer
- H300 Fatal if swallowed
- H312 Harmful in contact with skin
- H332 Harmful if inhaled
- H314 Causes severe skin burns and eye damage
- H317 May cause an allergic skin reaction
- H318 Causes serious eye damage
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
- H340 May cause genetic defects
- H350 May cause cancer
- H360 May damage fertility or the unborn child
- H372 Causes damage to organs through prolonged or repeated exposure
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects

### Precautionary statements:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P220 Keep/Store away from clothing/combustible materials
- P221 Take any precaution to avoid mixing with combustibles
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P264 Wash skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P272 Contaminated work clothing should not be allowed out of the workplace
- P285 In case of inadequate ventilation wear respiratory protection
- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P273 Avoid release to the environment
- P370+P378 In case of fire: Use agents recommended in section 5 for extinction
- P321 Specific treatment (see supplemental first aid instructions on this label).
- P363 Wash contaminated clothing before reuse
- P302+P352+P312 If on skin: Wash with soap and water. Call a poison center or doctor/physician if you feel unwell
- P304+P340+P310 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
- P301+P330+P331+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
- P303+P361+P353+P310 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
- P305+P351+P338+P310 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.
- P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
- P308+P313 If exposed or concerned: Get medical advice/attention
- P391 Collect spillage
- P405 Store locked up
- P501 Dispose of contents and container as instructed in Section 13

**Hazards not otherwise classified:** None

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### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 7789-12-0	Sodium dichromate dihydrate	100

**Additional Information:** None

### SECTION 4: First-aid measures

#### Description of first-aid measures

##### General notes:

Not determined or not available.

##### After inhalation:

Loosen clothing as necessary and position individual in a comfortable position  
Maintain an unobstructed airway  
Get medical advice/attention if you feel unwell  
Move to fresh air  
Call a POISON CONTROL CENTER or seek medical attention if you feel unwell  
Move exposed individual to fresh air  
Immediately call a POISON CONTROL CENTER or seek medical attention

##### After skin contact:

Rinse affected area with soap and water  
If symptoms develop or persist, seek medical attention  
Wash affected area with soap and water  
Seek medical attention if symptoms develop or persist  
Immediately remove all contaminated clothing  
Immediately call a POISON CONTROL CENTER or seek medical attention

##### After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes  
If symptoms develop or persist, seek medical attention  
Remove contact lens(es) if able to do so during rinsing  
Immediately call a POISON CONTROL CENTER or seek medical attention

##### After ingestion:

Rinse mouth thoroughly  
Seek medical attention if irritation, discomfort, or vomiting persists  
Immediately call a POISON CONTROL CENTER or seek medical attention  
Do not induce vomiting  
Rinse mouth and then drink plenty of water

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Not determined or not available.

##### Delayed symptoms and effects:

Not determined or not available.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not available.

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### Notes for the doctor:

Not determined or not available.

## SECTION 5: Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

#### Unsuitable extinguishing media:

Not determined or not applicable.

### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Will release oxygen when heated, intensifying a fire

### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

### Special precautions:

Carbon monoxide and carbon dioxide may form upon combustion

Heating causes a rise in pressure, risk of bursting and combustion

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation

Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

### Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

### Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Sweep or scoop up solid material while minimizing dust generation

Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Not determined or not applicable.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing dust.

Do not eat, drink, smoke or use personal products when handling chemical substances.

### Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Keep container dry.

Store in a cool, well-ventilated area.

Store away from flammable and combustible materials (paper, wood).

Store away from reducing agents (zinc, alkaline metals, formic acid).

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### SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

#### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Sodium dichromate dihydrate	7789-12-0	ACGIH TLV 0.05 mg/m <sup>3</sup> , as Cr
United States (OSHA)	Sodium dichromate dihydrate	7789-12-0	OSHA PEL 0.005 mg/m <sup>3</sup> , as Cr(VI)

#### Biological limit values:

No biological exposure limits noted for the ingredient(s).

#### Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

#### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

#### Personal protection equipment

##### Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

##### Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

##### Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

#### General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

### SECTION 9: Physical and chemical properties

#### Information on basic physical and chemical properties

<b>Appearance (physical state, color):</b>	Orange - red crystals
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not determined or not available.
<b>pH-value:</b>	3.5 - 3.9 (5% aq. sol.)
<b>Melting/Freezing point:</b>	357°C
<b>Boiling point/range:</b>	400°C
<b>Flash point:</b>	Not determined or not available.

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<b>Evaporation rate:</b>	Not determined or not available.
<b>Flammability (solid, gaseous):</b>	Not determined or not available.
<b>Explosion limit upper:</b>	Not determined or not available.
<b>Explosion limit lower:</b>	Not determined or not available.
<b>Vapor pressure:</b>	Not determined or not available.
<b>Vapor density:</b>	Not determined or not available.
<b>Density:</b>	Not determined or not available.
<b>Relative density:</b>	2.350 g/cm <sup>3</sup>
<b>Solubilities:</b>	Partially soluble.; 2.355 g/l in water
<b>Partition coefficient (n-octanol/water):</b>	Not determined or not available.
<b>Auto/Self-ignition temperature:</b>	Not determined or not available.
<b>Decomposition temperature:</b>	400°C
<b>Dynamic viscosity:</b>	Not determined or not available.
<b>Kinematic viscosity:</b>	Not determined or not available.
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Classified as an Oxidizing solid category 2.

### Other information

## SECTION 10: Stability and reactivity

### Reactivity:

Does not react under normal conditions of use and storage.

### Chemical stability:

Stable under normal conditions of use and storage.

### Possibility of hazardous reactions:

None under normal conditions of use and storage.

### Conditions to avoid:

Incompatible Materials. Dust generation. combustible materials. organic materials.

### Incompatible materials:

Water, oxidizing agents, reducing agents, acids, strong bases, acetic anhydride, hydrazine, hydroxylamine, iron, magnesium, nitric acid, oils, sulfuric acid, boron, hydrochloric acid, glycerol, metal powders, silicon, ethanol, 2-propanol.

### Hazardous decomposition products:

Oxygen, sodium oxide, toxic chromium oxide fumes.

## SECTION 11: Toxicological information

### Acute toxicity

**Assessment:** Fatal if swallowed Harmful in contact with skin Harmful if inhaled

**Product data:** No data available.

### Substance data:

Name	Route	Result
Sodium dichromate dihydrate	oral	LD50 - Rat - 67 mg/kg

### Skin corrosion/irritation

**Assessment:** Causes severe skin burns and eye damage

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**Product data:** No data available.

**Substance data:**

Name	Result
Sodium dichromate dihydrate	Causes severe skin burns and eye damage.

### Serious eye damage/irritation

**Assessment:** Causes serious eye damage

**Product data:** No data available.

**Substance data:** No data available.

### Respiratory or skin sensitization

**Assessment:** May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled

**Product data:** No data available.

**Substance data:**

Name	Result
Sodium dichromate dihydrate	May cause an allergic skin reaction.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### Carcinogenicity

**Assessment:** May cause cancer

**Product data:** No data available.

**Substance data:**

Name	Species	Result
Sodium dichromate dihydrate	Sodium Dichromate Dihydrate	May cause cancer through inhalation.

### International Agency for Research on Cancer (IARC):

Name	Classification
Sodium dichromate dihydrate	Group 1 - Carcinogenic to humans

### National Toxicology Program (NTP):

Name	Classification
Sodium dichromate dihydrate	Known to be human carcinogens

### Germ cell mutagenicity

**Assessment:** May cause genetic defects

**Product data:** No data available.

**Substance data:**

Name	Result
Sodium dichromate dihydrate	May cause genetic defects.

### Reproductive toxicity

**Assessment:** May damage fertility or the unborn child

**Product data:** No data available.

**Substance data:**

Name	Result
Sodium dichromate dihydrate	May damage fertility or the unborn child.

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### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:**

Name	Result
Sodium dichromate dihydrate	Specific Target Organ Toxicity, Repeated Exposure - Causes damage to cardiovascular/hematological organs through prolonged or repeated inhalation exposure.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Causes damage to organs through prolonged or repeated exposure

**Product data:** No data available.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**Information on likely routes of exposure:** No data available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available.

**Other information:** No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Very toxic to aquatic life

**Product data:** No data available.

**Substance data:**

Name	Result
Sodium dichromate dihydrate	EC50 - Daphnia magna - 0.035 mg/L - 48 h
	EC50 - Scenedesmus subspicatus - 0.13 mg/L - 72 h
	NOEC - Oncorhynchus mykiss - 0.051 mg/L - 60 d

### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.



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### SECTION 13: Disposal considerations

**Disposal methods:**


It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

### SECTION 14: Transport information


**Canadian Transportation of Dangerous Goods (TDG)**

<b>UN number</b>	UN3086
<b>UN proper shipping name</b>	Toxic solids, oxidizing, n.o.s. (Sodium dichromate dihydrate).
<b>UN transport hazard class(es)</b>	5.1 (6) 
<b>Packing group</b>	I
<b>Environmental hazards</b>	Marine Pollutant
<b>Special precautions for user</b>	None

**International Maritime Dangerous Goods (IMDG)**

<b>UN number</b>	UN3086
<b>UN proper shipping name</b>	Toxic solids, oxidizing, n.o.s. (Sodium dichromate dihydrate).
<b>UN transport hazard class(es)</b>	5.1 (6) 
<b>Packing group</b>	I
<b>Environmental hazards</b>	Marine Pollutant
<b>Special precautions for user</b>	None

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

<b>UN number</b>	UN3086
<b>UN proper shipping name</b>	Toxic solids, oxidizing, n.o.s. (Sodium dichromate dihydrate).
<b>UN transport hazard class(es)</b>	5.1 (6) 
<b>Packing group</b>	I
<b>Environmental hazards</b>	Marine Pollutant
<b>Special precautions for user</b>	None

### SECTION 15: Regulatory information

**Canada regulations**

**Domestic substances list (DSL):**

7789-12-0	Sodium dichromate dihydrate	Not Listed
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### Sodium Dichromate, Lab Grade

**Non-domestic substances list (NDSL):** Not determined.

### SECTION 16: Other information

**Abbreviations and Acronyms:** None

**Disclaimer:**

This product has been classified in accordance with the Canadian Hazardous Products Regulations and WHMIS 2015. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 3-0-3-ox

**HMIS:** 3-0-3-X

**Initial preparation date:** 02.01.2018

**End of Safety Data Sheet**