



HI-VALLEY CHEMICAL

LABORATORY PRODUCTS

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SAFETY DATA SHEET

Hi Valley Chemical

Sodium Dichromate

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Sodium Dichromate
Synonyms: Sodium bichromate
SDS Number: R-088
Revision Date: 6/1/2016
Version: 1
Supplier Details: High Valley Products, Inc.
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Centerville, Utah 84014
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2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

Physical, Oxidizing Solids, 2
Health, Acute toxicity, 2 Oral
Health, Acute toxicity, 4 Dermal
Health, Acute toxicity, 4 Inhalation
Health, Skin corrosion/irritation, 1 B
Health, Respiratory sensitization, 1
Health, Germ cell mutagenicity, 1 B
Health, Carcinogenicity, 1 B
Health, Reproductive toxicity, 1 B
Health, Specific target organ toxicity - Repeated exposure, 1
Environmental, Hazards to the aquatic environment - Chronic, 1

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS 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
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
H410 - Very toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- 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.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P285 - In case of inadequate ventilation wear respiratory protection.
- P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P310 - Immediately call a POISON CENTER or doctor/physician.
- P305+351+338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P308+313 - IF exposed or concerned: Get medical advice/attention.
- P363 - Wash contaminated clothing before reuse.
- P370+378 - In case of fire: Use _ for extinction.
- P405 - Store locked up.
- P501 - Dispose of contents/container to local regulations.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Ingredients:**

Cas#	%	Chemical Name
10588-01-9	>95%	Sodium dichromate

4 FIRST AID MEASURES

- Inhalation:** If inhaled, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- Skin Contact:** Remove contaminated clothing immediately. Wash with soap and water. Consult a physician.
- Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes, lifting eyelids occasionally to facilitate irrigation.
Consult a physician.
- Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5 FIRE FIGHTING MEASURES

Extinguishing media
 Suitable extinguishing media
 Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture
 No data available

Advice for firefighters
 Wear self-contained breathing apparatus for firefighting if necessary.

Further information
 Use water to cool unopened containers.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
 Wear respiratory protection. Avoid dust formation. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions:
 Do not let product enter drains.

Methods and materials for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7**HANDLING AND STORAGE**

Handling Precautions: Avoid contact with eyes, skin, or clothing.
Avoid formation of dust.
Use adequate ventilation.

Storage Requirements: Keep container tightly closed in a dry well-ventilated area.

8**EXPOSURE CONTROLS/PERSONAL PROTECTION****Personal Protective Equipment:**

Eye/face protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Exposure Guidelines

Sodium dichromate	ACGIH TLV	TWA: 0.05 mg/m ³
	OSHA PEL (8h TWA)	0.005 mg/m ³ Cr(VI)
	OSHA Action Level (8h TWA)	0.0025 mg/m ³ Cr(VI)

Appearance:	Crystalline
Physical State:	Solid
Odor:	None
Odor Threshold:	No data available
Solubility:	Water soluble
Spec Grav./Density:	No data available
Viscosity:	No data available
Boiling Point:	No data available
Freezing/Melting Pt.:	674.6°F / 357°C
Flash Point:	No data available
Partition Coefficient:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
pH:	4 (1% solution)
Evap. Rate:	No data available
Auto-Ignition Temp:	No data available
Decomp Temp:	752°F / 400°C
UFL/LFL:	No data available

Reactivity:	Oxidizer. Contact with other material may cause fire.
Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Heat, flames and sparks. Moisture.
Materials to Avoid:	Reducing agents; Organic materials, Readily oxidizable materials.
Hazardous Decomposition:	No decomposition if stored normally. At high temperatures: Chromium oxides

Acute toxicity

LD50 Oral - Rat - 50 mg/kg
 Inhalation: No data available
 Dermal: No data available
 No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

May cause sensitisation by skin contact.

Germ cell mutagenicity

May alter genetic material.

In vivo tests showed mutagenic effects

Rat

Liver

DNA damage

Hamster

Lungs

Sister chromatid exchange

Rat

DNA damage

Carcinogenicity

Carcinogenicity - Rat - Intratracheal

Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.

This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.

Possible human carcinogen

IARC: 1 - Group 1: Carcinogenic to humans (Sodium dichromate dihydrate)

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: OSHA specifically regulated carcinogen (Sodium dichromate dihydrate)

Reproductive toxicity

May cause congenital malformation in the fetus.

Presumed human reproductive toxicant

May cause reproductive disorders.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Inhalation - Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available

Additional Information

RTECS: HX7750000

Ulceration, Liver injury may occur., Kidney injury may occur.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

12**ECOLOGICAL INFORMATION****Toxicity**

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

13**DISPOSAL CONSIDERATIONS**

Dispose of in accordance with local regulations.

14**TRANSPORT INFORMATION**

UN3086, Toxic solids, oxidizing, n.o.s., 6.1,(5.1), PGI

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Sodium dichromate (VI) (10588-01-9) [n/a%] CERCLA, CSWHS, EPCRAWPC, MASS, PA, TSCA

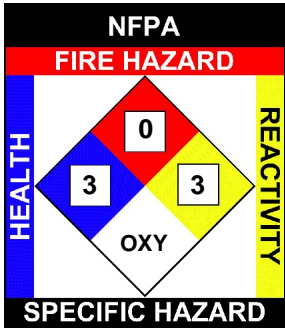
Regulatory CODE Descriptions

CERCLA = Superfund clean up substance
CSWHS = Clean Water Act Hazardous substances
EPCRAWPC = EPCRA Water Priority Chemicals
MASS = MA Massachusetts Hazardous Substances List
PA = PA Right-To-Know List of Hazardous Substances
TSCA = Toxic Substances Control Act

16**OTHER INFORMATION**

NFPA: Health = 3, Fire = 0, Reactivity = 3, Specific Hazard = OXY

HMIS III: Health = 4(Chronic), Fire = 0, Physical Hazard = 3



HMIS	
HEALTH	<input checked="" type="checkbox"/> 4
FLAMMABILITY	0
PHYSICAL HAZARD	3
PERSONAL PROTECTION	<input type="checkbox"/>

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