
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Dichromate Anhydrous

Synonyms/Generic Names: Sodium Bichromate

Product Use: For Manufacturing Use Only

Manufacturer: Sentury Reagents, Inc
2515 Commerce Drive
Rock Hill, SC 29732

In Case of Emergency Call: PERS: 800-633-8253 or 801-629-0667 Acct: 10613

2. HAZARDS IDENTIFICATION

OSHA Hazards: Oxidizer, Carcinogen, Target organ effect, Toxic by inhalation, Highly toxic by ingestion. Harmful by skin absorption, Respiratory sensitizer, Corrosive, Teratogen, Reproductive hazard, Mutagen.

Target Organs: Kidney, Liver

Signal Words: Danger

Pictograms:



GHS Classification:

Oxidizing solids	Category 2
Acute toxicity, Oral	Category 2
Acute toxicity, Inhalation	Category 4
Acute toxicity, Dermal	Category 4
Skin corrosion	Category 1B
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, Inhalation	Category 1
Acute aquatic toxicity	Category 1

GHS Label Elements, including precautionary statements: Hazard

Statements:

H272	May intensify fire; oxidizer.
H300	Fatal if swallowed.
H312+H332	Harmful in contact with skin or 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.
H400	Very toxic to aquatic life.

Precautionary Statements:

P201	Obtain special instructions before use.
P220	Keep/Store away from clothing/combustible materials.
P261	Avoid breath dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

Potential Health Effects

Eyes	Causes severe eye burns. Contact rapidly causes severe damage.
Inhalation	May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes burns to the respiratory tract.
Skin	May be harmful if absorbed through skin. Causes skin burns. Prolonged or repeated skin exposure may cause dermatitis.
Ingestion	May be fatal if swallowed. Severe and rapid corrosive burns of the mouth, gullet and gastrointestinal tract will result if swallowed.

NFPA Ratings

Health	3
Flammability	0
Reactivity	0
Specific hazard	Not Available

HMIS Ratings

Health	3
Fire	0
Physical	1
Personal	E

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	CAS #	EINECS# / ELINCS#	Formula	Molecular Weight
Sodium Dichromate Anhydrous	>99	10588-01-9	234-190-3	Na ₂ Cr ₂ O ₇	261.96 g/mol

4. FIRST-AID MEASURES

Eyes	Immediately rinse with plenty of water for at least 15 minutes and seek medical attention immediately.
Inhalation	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Skin	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention immediately.
Ingestion	Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

5. FIREFIGHTING MEASURES

Suitable (and unsuitable) extinguishing media	Product is not flammable. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide on adjacent fires.
Special protective equipment and precautions for firefighters	Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical	Emits toxic fumes (chromium oxides) under fire conditions. See also Stability and Reactivity section.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	See section 8 for recommendations on the use of personal protective equipment.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Any release to the environment may be subject to federal/national or local reporting requirements.
Methods and materials for containment and cleaning up	Cleanup personnel need personal protection from inhalation and skin/eye contact. Evacuate and ventilate the area. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. Clean surfaces thoroughly with water to remove residual contamination. Any release to the environment may be subject to federal/national or local reporting requirements. Dispose of all waste or cleanup materials in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

See section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well ventilated area. Keep away from incompatible materials (see section 10 for incompatibilities).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls:

Component	Exposure Limits	Basis	Entity
Sodium Chromate	0.005 mg/m ³ (as Cr)	PEL	USA OSHA
	0.001 mg/m ³ ceiling (as Cr)	STEL	USA OSHA
	0.05 mg/m ³ (as Cr)	TWA	USA ACGIH
	0.001 mg/m ³ (as Cr VI)	TWA	USA NIOSH

TWA: Time Weighted Average over 8 hours of work. TLV:

Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.

IDLH: Immediately Dangerous to Life or Health

WEEL: Workplace Environmental Exposure Levels

Personal Protection

Eyes	Wear chemical safety glasses.
Inhalation	Use an approved respirator if exposure levels exceed limits. Provide adequate exhaust.
Skin	Wear neoprene or nitrile gloves, protective clothing appropriate to the risk of exposure.
Other	Not Available

Other Recommendations

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling. Have supplies and equipment for neutralization and running water available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Red, orange crystals. Solid.
Odor	No odor
Odor threshold	Not Available
pH	Not Available
Melting point/freezing point	357°C
Initial boiling point and boiling range	Not Available
Flash point	Not Flammable (See section 5)
Evaporation rate	Not Available
Flammability (solid, gas)	Not Flammable (See section 5)
Upper/lower flammability or explosive limit	Not Explosive (See section 5)
Vapor pressure	Not Available
Vapor density	(air=1) Not Available
Relative density	Not Available
Solubility (ies)	Completely soluble in water
Partition coefficient: n-octanol/water	Not Available
Auto-ignition temperature	Not Available

Decomposition temperature

Not Available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable
Possibility of Hazardous Reactions	Will not occur.
Conditions to Avoid	None
Incompatible Materials	Acids, strong reducing agents, alcohol
Hazardous Decomposition Products	Sodium oxides and chromium oxides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Skin	Not Available
Eyes	Not Available
Respiratory	Not Available
Ingestion	LD50 Oral- rat- 50 mg/kg

Carcinogenicity

IARC	Group 1 Carcinogen (sodium dichromate).
ACGIH	Known Carcinogen (sodium dichromate).
NTP	Known Carcinogen (sodium dichromate).
OSHA	29CFR1910.1026 (sodium dichromate).

Signs & Symptoms of Exposure

Skin	Causes skin burns. May be absorbed through skin. Contact causes redness, burns, itching and pain. Prolonged or repeated skin exposure may cause dermatitis.
Eyes	May cause eye burns. Symptoms include eye burns, pain, watering eyes.
Respiratory	May be fatal if inhaled. Causes burns to the respiratory tract. Symptoms include coughing, shortness of breath, burning, choking, wheezing, laryngitis, headache or nausea.
Ingestion	May be fatal if swallowed. Causes burns.

Chronic Toxicity	This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACHIGH, NTP or EPA classification.
Teratogenicity	May alter genetic material.
Mutagenicity	Investigated as a mutagen.
Embryotoxicity	May cause reproductive disorders.
Specific Target Organ Toxicity	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Vertebrate	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Aquatic Invertebrate	Not Available
Terrestrial	Not Available

Persistence and Degradability	Not Available
Bioaccumulative Potential	Accumulates
Mobility in Soil	Not Available
PBT and vPvB Assessment	Not Available
Other Adverse Effects	Not Available

13. DISPOSAL CONSIDERATIONS

Waste Residues	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste products or residues.
Product Containers	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.

The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

14. TRANSPORTATION INFORMATION

US DOT	UN3288, Toxic solid, inorganic, n.o.s., Sodium Dichromate, 6.1, pg III
TDG	UN3288, Toxic solid, inorganic, n.o.s., Sodium Dichromate, 6.1, pg III
IMDG	UN3288, Toxic solid, inorganic, n.o.s., Sodium Dichromate, 6.1, pg III
Marine Pollutant	No
IATA/ICAO	UN3288, Toxic solid, inorganic, n.o.s., Sodium Dichromate, 6.1, pg III

15. REGULATORY INFORMATION

TSCA Inventory Status	All ingredients are listed on the TSCA inventory.
DSCL (EEC)	All ingredients are listed on the DSCL inventory.
California Proposition 65	Yes, Chromium compounds, cancer.
SARA 302	Listed: Sodium Dichromate
SARA 304	Listed: Sodium Dichromate
SARA 311	Sodium Dichromate
SARA 312	Sodium Dichromate
SARA 313	Listed: Sodium Dichromate
WHMIS Canada	CLASS C: Oxidizing material. CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

16. OTHER INFORMATION

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sentury Reagents, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.