

SAFETY DATA SHEET

Creation Date 16-Nov-2010 Revision Date 30-May-23 Revision Number 1

1. Identification

Product Name Sodium dichromate dihydrate

Cat No.: C7420, C7430

Synonyms Sodium bichromate

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Lab Alley LLC

22111 Highway 71 West, Suite 601

Spicewood. Texas 78669

Tel.: 512-668-9918

Emergency Telephone Number

Infotrac: 800-535-5053

2. Hazard(s) identification

Classification

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

Oxidizing solids Category 2 Acute oral toxicity Category 3 Acute dermal toxicity Category 4 Acute Inhalation Toxicity - Dusts and Mists Category 2 Skin Corrosion/irritation Category 1 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 (single exposure) Category 3 Target Organs - Respiratory system.

Specific target organ toxicity - (repeated exposure) Category 1

Target Organs - Liver, Kidney, Blood.

Label Elements

Signal Word

Danger

Hazard Statements

Revision Date 30-May-23

Sodium dichromate dihydrate

May intensify fire; oxidizer

Toxic if swallowed

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause respiratory irritation

May cause an allergic skin reaction

Fatal if inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause genetic defects

May cause cancer

May damage fertility. May damage the unborn child

Causes damage to organs through prolonged or repeated exposure



Precautionary Statements

Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

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 respiratory protection

In case of inadequate ventilation wear respiratory protection

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Response

Immediately call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Skin

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Ingestion

Rinse mouth

Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store locked up

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

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

WARNING! This product contains a chemical known in the State of California to cause cancer, birth defects or other reproductive

Revision Date 30-May-23

harm.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Sodium dichromate dihydrate	7789-12-0	>95
Sodium dichromate	10588-01-9	-

4. First-aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye ContactRinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Immediate medical

attention is required.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth

resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a

respiratory medical device. Immediate medical attention is required.

Ingestion Do not induce vomiting. Call a physician or Poison Control Center immediately.

Most important symptoms/effects Causes burns by all exposure routes. May cause allergy or asthma symptoms or breathing

difficulties if inhaled. May cause allergic skin reaction. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash,

itching, swelling, trouble breathing, tingling of the hands and feet, dizziness,

lightheadedness, chest pain, muscle pain or flushing

Notes to Physician Treat symptomatically

5. Fire-fighting measures

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

UpperNo data availableLowerNo data available

Oxidizing Properties Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous Combustion Products

Highly toxic fumes Sodium oxides Chromium oxide

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full

protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Flammability Physical hazards Health Instability OX

6. Accidental release measures

Personal Precautions

Environmental Precautions

Use personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid dust formation. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. Should not be released into the environment. See Section 12 for additional ecological information. Avoid release to the environment, Collect spillage.

Up

Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Sweep up and shovel into suitable containers for disposal.

7. Handling and storage

Handling

Use only under a chemical fume hood. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Do not ingest. Do not breathe vapors/dust. Avoid dust formation. Keep away from clothing and other combustible materials.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Do

not store near combustible materials.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium dichromate dihydrate	TWA: 0.05 mg/m ³	(Vacated) Ceiling: 0.1 mg/m ³	IDLH: 15 mg/m ³
	_	Ceiling: 0.1 mg/m ³	TWA: 0.0002 mg/m ³
Sodium dichromate	TWA: 0.05 mg/m ³	(Vacated) Ceiling: 0.1 mg/m ³	IDLH: 15 mg/m ³
	-	Ceiling: 0.1 mg/m ³	TWA: 0.0002 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Sodium dichromate dihydrate	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³	TWA: 0.05 mg/m ³
Sodium dichromate	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ TWA: 0.5 mg/m ³	TWA: 0.05 mg/m ³

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Use only under a chemical fume hood. Ensure that evewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Tightly fitting safety goggles. Face-shield. **Eye/face Protection**

Long sleeved clothing. Skin and body protection

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Solid Orange **Appearance** Odorless Odor

No information available **Odor Threshold** рΗ 3.5-3.9 5% aq.sol Melting Point/Range 357 °C / 674.6 °F

Boiling Point/Range 400 °C / 752 °F @ 760 mmHg

Flash Point No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

No data available Upper Lower No data available **Vapor Pressure** No information available **Vapor Density** Not applicable

Specific Gravity No information available Solubility No information available No data available

Partition coefficient; n-octanol/water

Autoignition Temperature Decomposition Temperature

Not applicable **Viscosity** Molecular Formula Cr2 Na2 O7 . 2 H2 O

Molecular Weight

10. Stability and reactivity

400 °C

Reactive Hazard Yes

Stable under normal conditions. Oxidizer: Contact with combustible/organic material may Stability

cause fire.

Conditions to Avoid Incompatible products. Excess heat. Combustible material.

Incompatible Materials Organic materials, Acids, Water, Strong bases, Acid anhydrides, Metals, Reducing agents,

Powdered metals, Strong reducing agents, Combustible material

Hazardous Decomposition Products Highly toxic fumes, Sodium oxides, Chromium oxide

Hazardous polymerization does not occur. **Hazardous Polymerization**

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

Sodium dichromate = 46 mg/kg (Rat)	= 960 mg/kg (Rabbit)	= 0.124 mg/L (Rat) 4 h

No information available **Toxicologically Synergistic**

Products

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

Irritation Causes burns by all exposure routes

NTP: (National Toxicity Program)

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium dichromate dihydrate	7789-12-0	Not listed	Not listed	A1	Not listed	A1
Sodium dichromate	10588-01-9	Group 1	Known	A1	Х	A1

IARC: (International Agency for Research on Cancer)

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen

Reasonably Anticipated - Reasonably Anticipated to be a Human

Carcinogen

ACGIH: (American Conference of Governmental Industrial

Mexico - Occupational Exposure Limits - Carcinogens

Hygienists)

A1 - Known Human Carcinogen A2 - Suspected Human Carcinogen

A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Confirmed Human Carcinogen A2 - Suspected Human Carcinogen A3 - Confirmed Animal Carcinogen

A4 - Not Classifiable as a Human Carcinogen A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects Mutagenic

Possible risk of impaired fertility. **Reproductive Effects**

Developmental Effects No information available.

Teratogenic effects have occurred in experimental animals. **Teratogenicity**

STOT - single exposure Respiratory system Liver Kidney Blood STOT - repeated exposure

Aspiration hazard No information available

delayed

Symptoms / effects,both acute and Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes

severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the

hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing

Endocrine Disruptor Information No information available

Other Adverse Effects See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium dichromate	Not listed	33.2: 96 h Pimephales	Not listed	EC50: = 1.4 mg/L (Daphnia
		promelas mg/L LC50		magna) 24 h,
		flow-through 213: 96 h		EC50: 0.098 - 0.129 mg/L
		Lepomis macrochirus mg/L		(Daphnia magna) 48 h,
		LC50 static 69: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 flow-through		

Persistence and Degradability based on information available. May persist

Revision Date 30-May-23

Bioaccumulation/ Accumulation No information available.

Will likely be mobile in the environment due to its water solubility. **Mobility**

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOT

UN3087 **UN-No**

Proper Shipping Name OXIDIZING SOLID. TOXIC. N.O.S. Proper technical name Sodium dichromate dihydrate

Hazard Class 5.1 **Subsidiary Hazard Class** 6.1 **Packing Group** Ш

TDG

UN-No UN3087

Proper Shipping Name OXIDIZING SOLID, TOXIC, N.O.S.

Hazard Class 5.1 **Subsidiary Hazard Class** 6.1 **Packing Group**

IATA

UN3087 **UN-No**

Proper Shipping Name OXIDIZING SOLID, TOXIC, N.O.S.

Hazard Class 5.1 **Subsidiary Hazard Class** 6.1 **Packing Group**

IMDG/IMO

UN-No

OXIDIZING SOLID, TOXIC, N.O.S. **Proper Shipping Name**

Hazard Class 5.1 **Subsidiary Hazard Class** 6.1 **Packing Group** Ш

15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium dichromate dihydrate	1	1	-	-	-		Χ	-	Χ	Х	-
Sodium dichromate	Χ	Χ	-	234-190-3	-		Χ	Χ	Х	Х	Χ

Legend:

- X Listed
- E Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
- F Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
- N Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.
- P Indicates a commenced PMN substance
- R Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.
- S Indicates a substance that is identified in a proposed or final Significant New Use Rule
- T Indicates a substance that is the subject of a Section 4 test rule under TSCA.
- XU Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).
- Y1 Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.
- Y2 Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)

Component	TSCA 12(b)
Sodium dichromate dihydrate	Section 6
Sodium dichromate	Section 6

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Sodium dichromate dihydrate	7789-12-0	>95	0.1
Sodium dichromate	10588-01-9	-	0.1

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard Yes

Clean Water Act

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium dichromate dihydrate	-	-	X	-
Sodium dichromate	Χ	10 lb	Х	-

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Sodium dichromate dihydrate	X		-
Sodium dichromate	X		-

OSHA Occupational Safety and Health Administration

Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
Sodium dichromate dihydrate	5 μg/m³ TWA 2.5 μg/m³ Action Level	-
Sodium dichromate	5 μg/m³ TWA 2.5 μg/m³ Action Level	-

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium dichromate	10 lb	-

California Proposition 65

This product contains the following Proposition 65 chemicals:

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Sodium dichromate dihydrate	7789-12-0	Carcinogen Developmental Female Reproductive Male Reproductive	0.001 μg/day	Developmental Carcinogen
Sodium dichromate	10588-01-9	Carcinogen Developmental Female Reproductive Male Reproductive	0.001 μg/day	Developmental Carcinogen

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium dichromate dihydrate	-	Х	Х	Х	Х
Sodium dichromate	X	X	X	Х	Х

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class C Oxidizing materials

D1A Very toxic materials D2A Very toxic materials E Corrosive material



16. Other information

Prepared By Regulatory Affairs

Lab Alley LLC

Email: customerservice@laballey.com

 Creation Date
 16-Nov-2010

 Revision Date
 30-May-23

 Print Date
 30-May-23

Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS