

# Safety Data Sheet

## Sodium Dichromate, 0.1 M

**CAROLINA**<sup>®</sup>  
www.carolina.com

### Section 1

### Product Description

**Product Name:** Sodium Dichromate, 0.1 M  
**Recommended Use:** Science education applications  
**Synonyms:** Sodium Bichromate  
**Distributor:** Carolina Biological Supply Company  
2700 York Road, Burlington, NC 27215  
1-800-227-1150  
**Chemical Information:** 800-227-1150 (8am-5pm (ET) M-F)  
**Chemtrec:** 800-424-9300 (Transportation Spill Response 24 hours)

### Section 2

### Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

**DANGER**



Fatal if swallowed. Harmful in contact with skin or if inhaled. Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life.

#### GHS Classification:

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Respiratory Sensitisation Category 1, Germ Cell Mutagenicity Category 1B, Carcinogenicity Category 1B, Reproductive Toxicity Category 1B, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 1, Hazardous to the aquatic environment - Acute Category 1, Acute Toxicity - Oral Category 2, Acute Toxicity - Inhalation Vapor Category 4, Acute Toxicity - Dermal Category 4

#### Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.  
Obtain special instructions before use.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Avoid release to the environment.  
Wear protective gloves/protective clothing/eye protection/face protection.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### Section 3

### Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	97.02
Sodium Dichromate, Dihydrate	7789-12-0	2.98

### Section 4

### First Aid Measures

#### Emergency and First Aid Procedures

**Inhalation:** IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. May severely irritate or damage mucous membranes and respiratory tract. Toxic by inhalation.

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

**Skin Contact:** IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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**Ingestion:** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

## Section 5 Firefighting Procedures

**Extinguishing Media:** Use dry chemical, CO2 or appropriate foam.  
**Fire Fighting Methods and Protection:** Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.  
**Fire and/or Explosion Hazards:** Contact with combustible materials, flammable materials, or powdered metals can cause fire or explosion. Can react violently with reducing agents.  
**Hazardous Combustion Products:** Carbon dioxide, Carbon monoxide, Sodium Oxides, Chromium compounds,

## Section 6 Spill or Leak Procedures

**Steps to Take in Case Material Is Released or Spilled:** Exposure to the spilled material may be severely irritating or highly toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed. Isolate area. Keep unnecessary personnel away. Avoid contact with clothing. Avoid creating and inhaling dust. Avoid contact with skin and eyes.  
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Ventilate area of spill. Clean-up personnel should wear proper protective equipment. Avoid creating dust. Sweep or scoop up and containerize for disposal. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Contain the discharged material. Block any potential routes to water systems. Collect spillage.

## Section 7 Handling and Storage

**Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. Do not breathe dust/vapor. Do not get in eyes, on skin, or on clothing. Retained residue may make empty containers hazardous; use caution.  
**Storage:** Store locked up. Keep container tightly closed in a cool, well-ventilated place.  
**Storage Code:** Blue - Toxic. Store separately in a secured area.

## Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u> (TWA)	(STEL)	<u>OSHA PEL</u> (TWA)	(STEL)
Sodium Dichromate, Dihydrate	0.05 mg/m3 TWA (as Cr)	N/A	5 µg/m3 TWA	N/A

### Control Parameters

**Engineering Measures:** No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.  
**Personal Protective Equipment (PPE):** Lab coat, apron, eye wash, safety shower.  
**Respiratory Protection:** No respiratory protection required under normal conditions of use.  
**Eye Protection:** Wear chemical splash goggles when handling this product. Have an eye wash station available.

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## Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

## Gloves:

Nitrile

## Section 9

## Physical Data

**Formula:** Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> · 2H<sub>2</sub>O

**Molecular Weight:** N/A

**Appearance:** Orange Liquid

**Odor:** None

**Odor Threshold:** No data available

**pH:** No data available

**Melting Point:** 91 C

**Boiling Point:** 100 C

**Flash Point:** No data available

**Flammable Limits in Air:** N/A N/A

**Vapor Pressure:** N/A

**Evaporation Rate (BuAc=1):** N/A

**Vapor Density (Air=1):** N/A

**Specific Gravity:** Approx. 1

**Solubility in Water:** N/A

**Log Pow (calculated):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Viscosity:** No data available

**Percent Volatile by Volume:** N/A

## Section 10

## Reactivity Data

**Reactivity:**

No data available

**Chemical Stability:**

Stable under normal conditions.

**Conditions to Avoid:**

None known.

**Incompatible Materials:**

Water-reactive materials, Alcohols, Strong reducing agents

**Hazardous Decomposition Products:**

Chromium compounds,, Sodium Oxides, Carbon dioxide, Carbon monoxide

**Hazardous Polymerization:**

Will not occur

## Section 11

## Toxicity Data

**Routes of Entry**

Inhalation, Ingestion, and Skin contact.

**Symptoms (Acute):**

, Respiratory disorders, Liver disorders

**Delayed Effects:**

No data available

**Acute Toxicity:**

**Chemical Name**

**CAS Number**

**Oral LD50**

**Dermal LD50**

**Inhalation LC50**

Water

7732-18-5

Oral LD50 Rat

90000 mg/kg

Sodium Dichromate, Dihydrate

7789-12-0

Oral LD50 Rat 50

mg/kg

**Carcinogenicity:**

**Chemical Name**

**CAS Number**

**IARC**

**NTP**

**OSHA**

Sodium Dichromate, Dihydrate

7789-12-0

Listed

Listed

Not listed

**Chronic Effects:**

**Mutagenicity:**

Evidence of a mutagenic effect.

**Teratogenicity:**

Evidence of a teratogenic effect (birth defect).

**Sensitization:**

Evidence of a sensitization effect.

**Reproductive:**

Evidence of negative reproductive effects.

**Target Organ Effects:**

**Acute:**

See Section 2

**Chronic:**

Mutation data cited.

## Section 12

## Ecological Data

**Overview:**

Extreme ecological hazard. This product may be highly toxic to plants and/or wildlife. Highly/very toxic to fish and other water organisms.

**Mobility:**

No data

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**Persistence:** No data  
**Bioaccumulation:** No data  
**Degradability:** No data  
**Other Adverse Effects:** No data

<b>Chemical Name</b>	<b>CAS Number</b>	<b>Eco Toxicity</b>
Water	7732-18-5	No data available

## Section 13 Disposal Information

**Disposal Methods:** Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Perform a waste determination prior to disposal. Dispose of hazardous waste at RCRA permitted facilities. All other wastes should be disposed at permitted facilities that accept industrial waste.

**Waste Disposal Code(s):** Not Determined

## Section 14 Transport Information

<b>Ground - DOT Proper Shipping Name:</b> UN3289, Toxic liquid, Corrosive, Inorganic, N.O.S., (Sodium Dichromate Solution), 6.1 (8), II	<b>Air - IATA Proper Shipping Name:</b> UN3289, Toxic liquid, Corrosive, Inorganic, N.O.S., (Sodium Dichromate Solution), 6.1 (8), II
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## Section 15 Regulatory Information

**TSCA Status:** All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available		No	No	No	No	No

**California Prop 65:** WARNING: This product contains a chemical known to the state of California to cause cancer and birth defects or other reproductive harm.

## Section 16 Additional Information

**Revised:** 09/09/2015

**Replaces:** 08/28/2014

**Printed:** 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health