

SAFETY DATA SHEET

Revision Date 24-Jul-2015 Version 1

1. IDENTIFICATION

Product Name Sodium Dichromate, Dihydrate

 Product Code
 8290

 CAS No.
 7789-12-0

 Chemical Formula
 Na₂Cr₂O₁⋅2H₂O

Recommended Use For laboratory, scientific, R&D or manufacturing use.

Company E K Industries, Inc.

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Emergency Telephone Call CHEMTREC 1-800-424-9300 (EKI CCN 7453)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Category 2
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Oxidizing solids	Category 2
Corrosive to metals	Category 1

Label elements

Signal word

Danger

Hazard statements

Fatal if swallowed. Toxic in contact with skin. Fatal if inhaled. Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause genetic defects. May cause cancer. May damage fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.

May intensify fire; oxidizer. May be corrosive to metals.



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/ combustible materials. Take any precaution to avoid mixing with combustibles. Keep only in original container.

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician.

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.

Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

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. Call a POISON CENTER or doctor/physician if you feel unwell.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. In case of fire: Use CO2, dry chemical, or foam for extinction.

Absorb spillage to prevent material damage.

Precautionary Statements - Storage

Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in original container or other corrosive resistant container.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sodium dichromate, dihydrate	7789-12-0	>99

4. FIRST AID MEASURES

Description of first aid measures

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Immediate medical attention is required.

Skin contact Immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Immediate medical attention is required.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get immediate medical attention.

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Ingestion Do NOT induce vomiting unless instructed to do so by medical personnel. If conscious,

rinse mouth and give several glasses of water to drink. Never give anything by mouth to an

unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms Causes severe skin burns and eye damage. May cause damage to organs, cancer, or

genetic defects. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment Flood fire area with water from a distance

Specific hazards arising from the chemical

Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.). Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Sodium oxides. Chromium oxides.

Protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

NFPA Health hazards 3 Flammability 0 Instability 1 Physical and Chemical Properties OX

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

adequate ventilation, especially in confined areas.

Environmental precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Handle in accordance with good industrial hygiene and safety practice.

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
	Sodium dichromate, dihydrate	TWA: 0.05 mg/m ³ Cr	TWA: 5 µg/m³	IDLH: 15 mg/m ³ Cr(VI)
١	7789-12-0		(vacated) Ceiling: 0.1 mg/m ³	TWA: 0.0002 mg/m ³ Cr
١			Ceiling: 0.1 mg/m³ CrO3 applies to	
			any operations or sectors for which	l l

the Hexavalent Chromium standard
[29 CFR 1910.1026] is stayed or is
otherwise not in effect

Appropriate engineering controls

Engineering Controls Emergency showers, eyewash stations, ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Solid

Appearance Orange - Red Crystals

Odor Odorless

Odor threshold No information available

pH No information available

Melting point / freezing point 91 C Boiling point / boiling range 400 C

Flash point

Evaporation rate

Flammability (solid, gas)

No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
Relative density
No information available
No information available
No information available
No information available

Water solubility Partially soluble

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Kinematic viscosity

No information available
No information available
No information available
No information available

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to avoid Extremes of temperature and direct sunlight

Incompatible materials Strong oxidizing agents.

Hazardous Decomposition Products Sodium oxide. Chromium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Toxic by inhalation.

Eye contact Risk of serious damage to eyes.

Skin contactContact causes severe skin irritation and burns. Repeated or prolonged skin contact may

cause allergic reactions with susceptible persons.

Ingestion Toxic if swallowed.

Information on toxicological effects

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

Skin corrosion/irritation Causes burns.

Serious eye damage/eye irritation Risk of serious damage to eyes.

Sensitization May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity No information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium dichromate, dihydrate	A1	Group 1	Known	Х
7789-12-0				

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A1 - Known Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

12. ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container. Emptied containers may contain residue. Continue to follow label

warnings after container is emptied.

Chemical Name	California Hazardous Waste Status
Sodium dichromate, dihydrate	Toxic
7789-12-0	Corrosive
	Ignitable

14. TRANSPORT INFORMATION

Transportation information is provided as a general reference only and may not be applicable in all situations. This information applies to non-bulk shipments only. Per 49 CFR §173.22, it is the shipper's responsibility to ensure that all materials are properly packaged, classified and labeled prior to shipment.

DOT

UN/ID no. 3288

Proper shipping name RQ, Toxic solid, inorganic, n.o.s., (sodium bichromate)

Hazard Class 6.1 Packing Group

IATA

UN/ID no. 3288

Proper shipping name RQ, Toxic solid, inorganic, n.o.s., (sodium bichromate)

Hazard Class 6.1 Packing Group III

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %		
Sodium dichromate, dihydrate - 7789-12-0	0.1		
SARA 311/312 Hazard Categories			
Acute health hazard	Yes		
Chronic Health Hazard	Yes		
Fire hazard	Yes		
Sudden release of pressure hazard	No		
Reactive Hazard	No		

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium dichromate, dihvdrate	-	X	-	-
7789-12-0				

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
Sodium dichromate, dihydrate - 7789-12-0	Carcinogen
	Developmental
	Female Reproductive
	Male Reproductive

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium dichromate, dihydrate	X	-	X
7789-12-0			

16. OTHER INFORMATION

Prepared By EKI Regulatory Affairs (Email: reg@eki-chem.com)

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End of Safety Data Sheet