GOJIRA FINE CHEMICALS, LLC

qojirafc.com

SAFETY DATA SHEET

Version 6.2 Revision Date 05/28/2017 Print Date 10/04/2019

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Sodium dichromate dihydrate

Product Number : 398063

Index-No. : 024-004-00-7

CAS-No. : 7789-12-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Gojira Fine Chemicals

5386 Majestic Parkway, Suite 7 Bedford Heights,

OH 44146

Telephone :440-252-5397

Email :docsupport@gojirafc.com

Fax :888-211-5523

1.4 Emergency telephone number

Emergency Phone # : 800-255-3924 (ChemTel, Contract # MIS7318160)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids (Category 2), H272

Acute toxicity, Oral (Category 2), H300

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Skin corrosion (Category 1B), H314

Serious eye damage (Category 1), H318

Respiratory sensitisation (Category 1), H334

Germ cell mutagenicity (Category 1B), H340

Carcinogenicity (Category 1B), H350

Reproductive toxicity (Category 1B), H360

Specific target organ toxicity - repeated exposure, Inhalation (Category 1), H372

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

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 if

inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P210 Keep away from heat.

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/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

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 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse

mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for

breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 + P310 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/doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to

extinguish.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Sodium bichromate

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

 Molecular weight
 : 298.00 g/mol

 CAS-No.
 : 7789-12-0

 EC-No.
 : 234-190-3

 Index-No.
 : 024-004-00-7

Hazardous components

Component	Classification	Concentration	
Sodium dichromate dihydrate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)			
(37110) according to regulation (EC) No. 1907/2000 (1	Ox. Sol. 2; Acute Tox. 2; Acute	<= 100 %	
	Tox. 4; Skin Corr. 1B; Eye		
	Dam. 1; Resp. Sens. 1; Muta.		
	1B; Carc. 1B; Repr. 1B; STOT		
	RE 1; Aquatic Acute 1; Aquatic		
	Chronic 1; H272, H300, H312 + H332, H314, H334, H340,		
	H350, H360, H372, H410		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Sodium oxides, Chromium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

6.2 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.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis	
	Remarks	See Table Z-2 for the exposure limit for any operations or sectors where the exposure limit in § 1910.1026 is stayed or is otherwise not in effect Substance listed; for more information see OSHA document 1910.1026			
Sodium dichromate dihydrate	7789-12-0	TWA	0.050000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
		Upper Respiratory Tract irritation Cancer Substances for which there is a Biological Exposure Index or Indices (see BEI® section) Confirmed human carcinogen varies			
		PEL	0.005000 mg/m3	OSHA Specifically Regulated Chemicals/Carcinogens	
		1910.1026 This standard applies to occupational exposures to chromium (VI) ir all forms and compounds in general industry, except: (a) Exposures that occur in the application of pesticides regulated by the Environmental Protection Agency or another Federal government agency (e.g., the treatment of wood with preservatives); (b) Exposures to portland cement; or (c) Where the employer has objective data demonstrating that a material containing chromium or a specific process, operation, or activity involving chromium cannot release dusts, fumes, or mists of chromium (VI) in concentrations at or above 0.5 µgm/m3 as an 8-hour time-weighted average (TWA) under any expected conditions of use. Chromium (VI) [hexavalent chromium or Cr(VI)] means chromium with a valence of positive six, in any form and in any compound			

OSHA specifically regulated carcinogen			
See Table Z-2 for the exposure limit for any operations or sectors			
where the exposure limit in § 1910.1026 is stayed or is otherwise not			
in effect			
Substance listed; for more information see OSHA document			
1910.1026			
TWA	0.05 mg/m3	USA. ACGIH Threshold Limit Values (TLV)	
Upper Respiratory Tract irritation Cancer			
Substances for which there is a Biological Exposure Index or Indices			
(see BEI® section)			
Confirmed human carcinogen			
varies			
PEL	0.005 mg/m3	OSHA Specifically Regulated	
		Chemicals/Carcinogens	
1910.1026			
		ational exposures to chromium (VI) in	
all forms and compounds in general industry, except: (a) Exposures			
that occur in the application of pesticides regulated by the			
Environmental Protection Agency or another Federal government			
agency (e.g., the treatment of wood with preservatives); (b)			
Exposures to portland cement; or (c) Where the employer has			
objective data demonstrating that a material containing chromium or			
a specific process, operation, or activity involving chromium cannot			
release dusts, fumes, or mists of chromium (VI) in concentrations at			
or above 0.5 μgm/m3 as an 8-hour time-weighted average (TWA)			
under any expected conditions of use.			
Chromium (VI) [hexavalent chromium or Cr(VI)] means chromium			
with a valence of positive six, in any form and in any compound			
OSHA specifically regulated carcinogen			

Biological occupational exposure limits

Component	CAS-No.	Parameters	Value	Biological specimen	Basis	
Sodium dichromate dihydrate	7789-12-0	Total chromium	25.0000 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)	
	Remarks	End of shift at end of workweek				
		Total chromium	10.0000 µg/l	Urine	ACGIH - Biological Exposure Indices (BEI)	
		Increase during shift				
		Total chromium	25 μg/l	Urine	ACGIH - Biological Exposure Indices (BEI)	
		End of shift at end of workweek				
		Total chromium	10 μg/l	Urine	ACGIH - Biological Exposure Indices (BEI)	
		Increase during shift				

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

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 laver 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 industria 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 (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

b) Odour No data available c) Odour Threshold No data available d) pH No data available

Melting point/freezing Melting point/range: 91 °C (196 °F) - lit.

point

Initial boiling point and No data available

boiling range

g) Flash point ()Not applicable h) Evaporation rate No data available No data available Flammability (solid, gas) Upper/lower

flammability or

No data available

explosive limits

k) Vapour pressure No data available No data available Vapour density

m) Relative density 2.350 g/cm3 n) Water solubilityNo data availableo) Partition coefficient: n-No data available

octanol/water

p) Auto-ignition No data available

temperature

q) Decomposition No data available

temperature r) Viscosity

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties The substance or mixture is classified as oxidizing with the category 2.

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong reducing agents, Alcohols

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Sodium oxides, Chromium oxides Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - 50 mg/kg(Sodium dichromate dihydrate)

Inhalation: No data available(Sodium dichromate dihydrate)

Dermal: No data available(Sodium dichromate dihydrate)

No data available(Sodium dichromate dihydrate)

Skin corrosion/irritation

No data available(Sodium dichromate dihydrate)

Serious eye damage/eye irritation

No data available(Sodium dichromate dihydrate)

Respiratory or skin sensitisation

May cause sensitisation by skin contact. (Sodium dichromate dihydrate)

Germ cell mutagenicity

May alter genetic material.(Sodium dichromate dihydrate)

In vivo tests showed mutagenic effects(Sodium dichromate dihydrate)

Rat(Sodium dichromate dihydrate)

Liver

DNA damage

Hamster(Sodium dichromate dihydrate)

Lunas

Sister chromatid exchange

(Sodium dichromate dihvdrate)

Rat

DNA damage

Carcinogenicity

This is or contains a component that has been reported to be carcinogenic classification. (Sodium dichromate dihydrate) Possible human carcinogen(Sodium dichromate dihydrate)

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. (Sodium dichromate dihydrate)

Presumed human reproductive toxicant(Sodium dichromate dihydrate)

May cause reproductive disorders.(Sodium dichromate dihydrate)

Specific target organ toxicity - single exposure

No data available(Sodium dichromate dihydrate)

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

No data available(Sodium dichromate dihydrate)

Additional Information

RTECS: HX7750000

Ulceration, Liver injury may occur., Kidney injury may occur.(Sodium dichromate dihydrate)

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence(Sodium dichromate dihydrate)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available(Sodium dichromate dihydrate)

12.5 Results of PBT and vPvB assessment

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

12.6 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

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 3086 Class: 6.1 (5.1) Packing group: I

Proper shipping name: Toxic solids, oxidizing, n.o.s. (Sodium dichromate dihydrate)

Reportable Quantity (RQ) : 10 lbs

Poison Inhalation Hazard: No

IMDG

UN number: 3086 Class: 6.1 (5.1) Packing group: I EMS-No: F-A, S-Q

Proper shipping name: TOXIC SOLID, OXIDIZING, N.O.S. (Sodium dichromate dihydrate)

IATA

UN number: 3086 Class: 6.1 (5.1) Packing group: I

Proper shipping name: Toxic solid, oxidizing, n.o.s. (Sodium dichromate dihydrate)

IATA Passenger: Not permitted for transport

Α5

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

The following components are subject to reporting levels established by SARA Title III, Section 313:

Sodium dichromate dihydrate CAS-No. Revision Date 7789-12-0 1993-04-24

SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

Sodium dichromate dihydrate CAS-No. Revision Date 7789-12-0 1993-04-24

Pennsylvania Right To Know Components

CAS-No. Revision Date Sodium dichromate dihydrate 7789-12-0 1993-04-24

New Jersey Right To Know Components

CAS-No. Revision Date Sodium dichromate dihydrate 7789-12-0 1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer. CAS-No. Revision Date 2014-06-06

Sodium dichromate dihydrate

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

CAS-No. 7789-12-0 Revision Date 2014-06-06

Sodium dichromate dihydrate

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H272 May intensify fire; oxidizer. H300 Fatal if swallowed.

H312 Harmful in contact with skin.

H312 + H332 Harmful in contact with skin or if inhaled H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

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 if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

HMIS Rating

Health hazard: 4
Chronic Health Hazard: *
Flammability: 0
Physical Hazard 3

NFPA Rating

Health hazard: 3
Fire Hazard: 0
Reactivity Hazard: 3
Special hazard.1: OX

Further information

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or merchantability or any other warranty, express or Implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gojira Fine Chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gojira Fine Chemicals has been advised of the possibility of such damages.

1-800-521-8956

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