



MATERIAL SAFETY DATA SHEET

Section 1

Identification of substance and company

Trade Name: Sodium dichromate dihydrate
CAS Number: 7789-12-0
EC number: 234-190-3
Index No.: 024-004-01-4
Application: Mainly used for the manufacture of chrome yellow pigments, chromic anhydride, and other chromium salts. It is also used as analytical reagent, oxidant, antiseptic, and used in organic synthesis.
Supplier: Huangshi Yucheng Trade Co.,Ltd
Address: 60 Room, 6 Suit, Lakeshore Area, Huangshi City, Hubei, China
Tel/Fax: 86-714-6403185/86-714-6401119

Section 2

COMPOSITION, INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	content	EINECS#	UN#
7789-12-0	Sodium dichromate dihydrate	98.5	234-190-3	3087

Hazard Symbols: O,T+,N
Risk Phrases: 45-46-60-61-8-21-25-26-34-42/43-48/23-50/53

Section 3

HAZARDS IDENTIFICATION

Inhalation

Causes respiratory tract irritation. May cause ulceration and perforation of the nasal septum if inhaled in excessive quantities.

Skin

Causes skin burns. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. May be harmful if absorbed through the skin.

Eyes

Contact with eyes may cause severe irritation, and possible eye burns.

Ingestion

Harmful if swallowed. Causes gastrointestinal tract burns. May cause kidney damage.

Hazards

Strong oxidizer. Contact with combustible materials may cause a fire

Section 4

FIRST AID MEASURES

General description

Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours. Therefore medical observation for at least 48 hours after the accident.

Remove breathing equipment only after contaminated clothing haven been completely removed.
In case of irregular breathing or respiratory arrest provide artificial respiration.

After skin contact: immediately wash with water and soap and rinse thoroughly.

After eye contact: rinse opened eye for several munities under running water. Then consult a doctor.

After swallowing:

-Do not induce vomiting, call for medical help immediately.

-Drink plenty of water and provide fresh air. Call for a doctor immediately.

Section 5

FIRE FIGHTING MEASURES

Suitable extinguishing agents
CO2 powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture: no further relevant information available.

Advice for firefighters

Protective equipment: mouth respiratory protective device.



HUANGSHI YUCHENG TRADE CO., LTD

Address (Wuhan branch): No.8 Hongtu Road, Dongxihu District, Wuhan City,
Hubei Province, China. Tel/tax: 86-27-84750716

➔ Section 6 ACCIDENTAL RELEASE MEASURES

Small spills/leaks

Vacuum or sweep up material and place into a suitable disposal container. Do not flush into a sewer. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Remove all sources of ignition.

Environmental precautions

Inform respective authorities in case of seepage into water course or sewage system

Do not allow to enter sewers, surface or ground water.

➔ Section 7 HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Avoid contact with clothing and other combustible materials. Avoid ingestion and inhalation.

Storage:

Keep away from heat, sparks, and flame. Do not store near combustible materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

➔ Section 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Personal Protection

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate gloves to prevent skin exposure.

Clothing: Wear a chemical apron. Wear appropriate clothing to prevent skin exposure.

Respirators

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

Exposure Effects

Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated exposure may lead to asthma and perforation of the nasal septum.

Exposure limit(s)

TLV: 0.025 ppm; 0.16 mg/m³ (ACGIH 1991-1992). NIOSH REL: Ca 0.001 mg Cr(VI)/m³ See Appendix A See Appendix C NIOSH IDLH: Potential occupational carcinogen

➔ Section 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Bright orange-yellow crystal or powder.

Solubility in water: 234 g/L (25 C)

Melting Point: 356.7

Density: 2.35 g/cm³ (13 C)

Vapor Density: 10.3

➔ Section 10 STABILITY AND REACTIVITY

Incompatibilities

Reducing agents

Stability

Stable under normal temperatures and pressures

Decomposition

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide sodium oxide, chromium dioxide.

Combustion products

Fire may produce irritating, corrosive and /or toxic glass.

➔ Section 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

Fatal if swallowed or if inhaled

Harmful in contact with skin.



LD/LC50 values relevant for classification:

Oral LD50 50mg/kg(rat)

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Causes serious eye damage.

Respiratory or skin sensitization

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

May cause an allergic skin reaction.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

May damage fertility. May damage the unborn child.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard based on available data, the classification criteria are not met.

➔ **Section 12 ECOLOGICAL INFORMATION**

Toxicity

Aquatic toxicity: no further relevant information available.

Persistence and degradability: no further relevant information available.

Bioaccumulative potential: no further relevant information available.

Mobility in soil: no further relevant information available.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: no further relevant information available.

Additional ecological information:

General notes:

Water hazard class 3: extremely hazardous for water.

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Must not reach sewage water to drainage ditch undiluted or unneutralised.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms.

➔ **Section 13 DISPOSAL CONSIDERATIONS**

Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation: disposal must be made according to official regulations.

➔ **Section 14 TRANSPORT INFORMATION**

UN-Number: 3087

UN proper shipping name

ADR/RID/ADN:

3087 oxidizing solid, toxic, N.O.S. (sodium dichromate, dihydrate), environmentally hazardous.

IMDG: oxidizing solid, toxic, N.O.S. (sodium dichromate, dihydrate), marine pollutant.

IATA:

Oxidizing solid, toxic, N.O.S. (sodium dichromate, dihydrate)

Transport hazard class(es)

ADR/RID/ADN

Class: 5.1 oxidizing substances.

Label: 5.1+6.1

IMDG

Class: 5.1 oxidizing substances.

Label: 5.1+6.1



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IATA

Class: 5.1 oxidizing substances.

Label: 5.1+6.1

Packing group

ADR,RID,ADN,IMDG,IATA: II

Environmental hazards: product contains environmentally hazardous substance sodium dichromate, dihydrate.

Marine pollutant: symbol (fish and tee)

Special marking(ADR/RID/ADN) : symbol (fish and tee)

Special precautions for user: warning: oxidizing substances.

Danger code(Kemler): 56

EMS number: F-A, S-Q

Transport in bulk according to Annex II of MARPOL73/78 and the IBC code: not applicable

UN ' Model Regulation': UN 3087 OXIDIZING SOLID, TOXIC, N.O.S. (SODIUM DICHROMATE, DIHYDRATE), 5.1(6.1), II, ENVIRONMENTALLY HAZARDOUS.

➔ Section 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances-ANNEX I substance is not listed.

Seveso category

H2 ACUTE TOXIC

P8 OXIDIZING LIQUIDS AND SOLIDS

E1 Hazardous to the Aquatic Environment

Qualifying quantity(tones) for the application of lower-tier requirements 50 t

Qualifying quantity(tones) for the application of upper-tier requirements 200 t

National regulations:

Information and about limitation of use:

Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

Waterhazard class: water hazard class 3(self-assessment): extremely hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation (12/1/2017)

7789-12-0 sodium dichromate, dihydrate

REACH Regulation Annex XVII Restriction (12/12/2016)

See Section 16 for information about restriction of use.

7789-12-0 sodium dichromate dihydrate

REACH Regulation Annex XIV Authorisation List (14/8/2014)

7789-12-0 sodium dichromate dihydrate

➔ Section 16 OTHER INFORMATION

ISSUED BY HUANGSHI YUCHENG TRADE CO.,LTD

*the above declaration of material safety data sheet is created according to the knowledge that we know till now. Imperfection may exist, which is out of our research now.

