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MATERIAL SAFETY DATA SHEET

CAS Number: 7789-12-0

Version:01

PRODUCT NAME: SODIUM DICHROMATE DIHYDRATE

1. IDENTIFICATION:

Product Code : 90241, 90547

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, Address

NAVI MUMBAI - 400 701.

sales@adventchembio.com E-mail

WEBSITE www.adventchembio.com

Company Phone Number : 022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards

Oxidizing solids : Category 2

Health hazards

Acute toxicity, Oral : Category 3

Acute toxicity, Dermal : Category 4

Acute toxicity, Inhalation : Category 2

Skin corrosion : Sub-category 1B

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

Reproductive toxicity : Category 1B

Specific target organ

toxicity - repeated : Category 1

exposure, Oral

Short-term (acute) aquatic

: Category 1 hazard

Long-term (chronic) aquatic

Category 1 hazard

Labels elements

Hazard symbol













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PRODUCT NAME: SODIUM DICHROMATE DIHYDRATE

Signal word : Danger

Hazard statement May intensify fire; oxidizer

May intensify fire; oxidizer

Toxic if swallowed.

Causes severe skin burns and eye damage.

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

May cause an allergic skin reaction.

Fatal if inhaled.

May cause cancer.

May cause genetic defects.

Causes damage to organs through prolonged or repeated exposure if inhaled.

May damage fertility. May damage the unborn child. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention : Obtain special instructions before use.

Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety

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precautions have been read and understood.

Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response IF exposed or concerned: Get medical advice/ attention.

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

shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Disposal Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal.

Other hazards which do not

Storage

result in GHS classification

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

levels of 0.1% or higher.

COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Sodium Dichromate Dihydrate	7789-12-0	NLT 98.5%	Yes



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4. FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce

: vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the

lungs.

Move to fresh air. Call a physician or poison control center immediately. If breathing stops,

Inhalation : provide artificial respiration. If breathing is difficult, give oxygen.

Get medical attention if symptoms persist.

Skin contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact

lenses. Get medical attention.

Most important

symptoms/effects, acute

and delayed

Indication of immediate

medical attention and

special treatment needed

: The most important known symptoms and effects are described in the labelling.

: No data available.

5. FIRE FIGHTING MEASURES:

General information

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing

media

For this substance/mixture no limitations of extinguishing agents are given.

Specific hazards arising from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting

procedures

Special protective

equipment for fire-fighters

Fight fire from a protected location. Move containers from fire area if you can do so without

risk.

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.



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Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger

spill for later recovery and disposal.

Notification Procedures Prevent entry into waterways, sew

es . Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if

large amounts are involved.

Environmental precautions Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do

so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective

Protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,

well-ventilated place.

gloves/protective clothing/eye

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

Hygiene measures

Appropriate engineering

controls : No data available

Individual protection measures, such as personal protective equipment

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust

General information ventilation, or other engineering controls to maintain airborne levels below recommended

exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

area. Use explosion-proof ventilation equipment.

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

Hand protection : Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator. Chemical

respirator with organic vapor cartridge.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and

protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.



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9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : Reddish to bright orange crystals.

Odor : Odorless

Solubility : Miscible in water.

Formula : $Na_2Cr_2O_7.2H_2O$

Molecular Weight : 298 g/mol

Density : 2.35 g/cm3 at 20 °C

pH : 3,5 at 100 g/l at 20 °C

% Volatiles by volume @

21C (70F)

No data available.

Boiling Point : 400 °C at 1.013 hPa

Melting Point : 100°C

Flash Point : Not applicable.

Vapor Density (Air=1) : No data available.

Vapor Pressure (mm Hg) : Not applicable.

Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability: Material is stable under ambient conditions..

Risk of explosion with: Alcohols, organic combustible substances, hydrazine and derivatives, hydroxylamine, Boron, Iron, magnesium, Metals, Acid anhydrides, sulfuric acid, ethanol with

Possibility of hazardous

conc. sulfuric acid, Sulfides with Water.

reactions Risk of i

Risk of ignition or formation of inflammable gases or vapours with: glycerol organic

solvent.

Exothermic reaction with: Reducing agents, hydrochloric acid.

Conditions to avoid : No data available.

Incompatible materials : No data available.

Hazardous decomposition

products
: In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)



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Oral Product : LD 50 (Rat): female - 86,5 mg/kg

Dermal Product : LD 50 Rabbit - male and female - > 2.000 mg/kg

Inhalation Product LC 50 Rat - male - 4 h - 0,2 mg/l - dust/mist

Repeated dose toxicity

Product

No data available.

Product

Skin corrosion/irritation

Severe irritations.

Serious eye damage/eye irritation Product

Causes serious eye damage.

Respiratory or skin

sensitization Product

May cause sensitization by skin contact.

Carcinogenicity Product

Presumed to have carcinogenic potential for humans Possible human carcinogen.

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

: No carcinogenic components identified.

No carcinogenic components identified.

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050

Germ cell mutagenicity

: No carcinogenic components identified.

May alter genetic material. May cause genetic defects.

In vitro Product No data available.

Reproductive toxicity

Product

May cause congenital malformation in the fetus.

May damage the unborn child.

Presumed human reproductive toxicant May cause reproductive disorders.

May damage fertility.

Specific target organ

toxicity - single exposure

Product

: No data available.

Specific target organ

toxicity - repeated exposure Product

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

Aspiration hazard Product

: No data available.

Other effects

No data available.



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12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product : LC50 - Pimephales promelas (fathead minnow) - 33,2 mg/l - 96 h

Aquatic invertebrates

Product : static test EC50 - Daphnia magna (Water flea) - 0,112 mg/l - 48 h

Toxicity to algae : static test EC50 - Selenastrum capricornutum (green algae) - 0,217 mg/l - 96 h

Toxicity to bacteria : EC50 - activated sludge - 75,5 mg/l - 3 h

Chronic hazards to the aquatic environment

Fish Product : No data available.

Aquatic invertebrates

Product : No data available.

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product The methods for determining the biological degradability are not applicable to inorganic

substances.

BOD/COD ratio Product : No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

Product

No data available.

Mobility in soil

: No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions : Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal

recommendations are based on uncontaminated material.

Contaminated packaging . Since emptied containers retain product residue, follow label warnings even after container

is emptied.



14. TRANSPORT INFORMATION:

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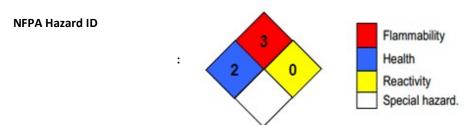
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	UN No.	UN proper shipping	Hazard	Packaging	Marine
		name	Class(es)	group	Pollutant
DOT	UN 3087	Sodium Dichromate	5.1 (6.1)	II	Yes
		Dihydrate			
IMDG	UN 3087	Sodium Dichromate	5.1 (6.1)	II	Yes
		Dihydrate			
IATA	UN 3087	Sodium Dichromate	5.1 (6.1)	II	No
		Dihvdrate			

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 01/02/2024

Version : 01

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