



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : S 12529
Product Name : SODIUM DICHROMATE DIHYDRATE

Manufacturer/supplier identification company: NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483
Emergency Telephone No.: 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Sodium bichromate ; Sodium pyrochromate.

CAS-No. : 7789-12-0 EC-No. : 234-190-3
EC-Index –No. : 024-004-01-4 Molar mass : 298.00
Molecular formula : $\text{Cr}_2\text{Na}_2\text{O}_7 \cdot 2\text{H}_2\text{O}$

3. HAZARDS IDENTIFICATION : May cause cancer by inhalation. May cause heritable genetic damage.

Also harmful in contact with skin. Also toxic if swallowed. Also very toxic by inhalation. Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Restricted to professional users. Attention –Avoid exposure – obtain special instructions before use.

4. FIRST AID MEASURES : After skin contact : Wash off with plenty of water. Remove contaminated clothing.

After eye contact : rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately summon eye specialist.

After inhalation : Fresh air. Summon doctor.

After swallowing : Make victim drink plenty of water, induce vomiting. Immediately summon doctor.

General information : Carefully clean wounds and cover with



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sterile dressing material.

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5. FIRE-FIGHTING MEASURES: Suitable extinguishing media : In adaption to materials stored in the immediate neighbourhood.

Special risks: Non -combustible. A fire- promoting effect must be considered possible when large amounts of the substance are stored.

Special protective equipment for fire fighting : Do not stay in dangerous zone without suitable chemical protection clothing and self-contained breathing apparatus.

Other information :Prevent fire-fighting water from entering surface water or groundwater.

6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures: Avoid inhalation of dusts in all circumstances.

Environmental –protection measures : Do not allow to enter sewerage system.

Procedures for cleaning/absorption: Carefully take up dry. Forward for disposal. Clean up effected area.

7. HANDLING & STORAGE : Handling : No further requirements.

Storage : Tightly closed . Dry. In awell-ventilated place .
At + 15°C to + 25°C. Accessible only for authorized persons..

8. Exposure controls/ personal protection

Personal protective equipment :

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled . The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection : required when dusts are generated.

Eye protection : Required

Hand protection : Required

Industrial hygiene : Immediately change contaminated clothing.
Apply skin-protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace.



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9. Physical and chemical properties :

Form	:	Solid
Colour	:	Orange
Odour	:	Almost odourless
pH value at 100 g/l H ₂ O (20° C)	:	3.5
Melting temperature	:	Not available
Boiling temperature	:	Not available
Sublimation point	:	----
Ignition temperature	:	Not available
Flash point	:	Not available
Explosion limits lower	:	Not available
Upper	:	Not available
Vapour pressure	:	----
Relative vapour density	:	Not available
Density (20° C)	:	2.52 g/cm ³
Bulk density	:	1200 kg/m ³
Solubility in water(20° C)	:	1800 g/l
Ethanol (20 °C)	:	In soluble
Log P(oct)	:	-----
Thermal decomposition	:	>400 ° C

10. Stability & reactivity : Conditions to be avoided : No information available.
Substances to be avoided : Organic combustible substances, anhydrides, hydrazine & derivatives, hydroxylamine, sulfides/water, reducing agents, Conc.Sulphuric acid, glycerol, boron, iron, magnesium, metals in powder Form.
Hazardous decomposition products : No information available.
Further information : Releases water of crystallization when heated.

11. Toxicological Information: Acute toxicity: Quantitative data on the toxicity of this product are not available.
Subacute to chronic toxicity : Animal experiments performed under conditions comparable with the workplace situation have shown the substance to be carcinogenic.

Further toxicological information : The following applies to soluble chromium(VI) compounds:
After skin contact : Burns. Penetration of the substance into wounds causes poorly healing ulcers. In sensitive persons the substance easily causes sensitisation.

After inhalation : Burns. Possible allergic reactions of the airways (risk of pneumonia) and damage to the nasal mucous membranes (under certain circumstances, risk of septum perforation).



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After contact with eyes : Burns.

After swallowing: severe pain in the gastrointestinal tract.

Systemic effects : Absorption can lead to kidney and liver damage.

Further data : The product should be handled with the care usual when dealing with chemicals.

12. Ecological information : Ecotoxic effects: The following applies to chromium ions is general :
Biological effects: fish: toxic from 52 mg/l up; LC₅₀ : 29 mg/l; algae: toxic from 5 mg/l up; arthropods:
Daphnia toxic from 0.32 mg/l up, calculated as sodium chromate.

Further ecologic data : Do not allow to enter waters, waste water, or soil.

13. Disposal Method : There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws & regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information :
Transport over land ADR/RID and GGVS/GGVE :

GGVS, GGVE, class : 6.1 Number and letter : 65c
ADR, RID class : 6.1 Number and letter : 65c
Name of material : SODIUM DICHROMATE DIHYDRATE

River transport AND/ADNR : Not examined

Sea transport IMDG :

IMDG class : 6.1 UN-No. : 3288 Packaging group III
Ems : 6.1-04 MFAG : 4.2

Correct technical name : SODIUM DICHROMATE DIHYDRAT

Air transport ICAO-TI AND IATA-DGR



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15. Regulatory Information :

Labelling according to EC Directives

Symbol : T+ Very toxic
N Dangerous for the environment

R-phrases : 49-46-21-25-26-37/38-41-43-50/53

May cause cancer by inhalation. May cause heritable genetic damage. Also harmful in contact with skin. Also toxic if swallowed. Also very toxic by inhalation. Irritating to respiratory system and skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase : 24/25-61

Avoid exposure—obtain special instructions before use. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

Water pollution class : 3 (highly polluting substance)

16. Other information

Reason for alteration :

The information contained here in is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It doesnot represent a guarantee of the properties of the product.