

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

SODIUM CHROMATE AR (TETRAHYDRATE)

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product name : Sodium chromate tetrahydrate
 CAS-No. : 10034-82-9

Product Coad: S0194605000

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Reproductive toxicity (Category 1B)

Carcinogenicity (Category 1B)

Germ cell mutagenicity (Category 1B)

Acute toxicity, Inhalation (Category 2)

Acute toxicity, Oral (Category 3)

Specific target organ toxicity - repeated exposure (Category 1)

Acute toxicity, Dermal (Category 4)

Skin corrosion (Category 1B)

Respiratory sensitization (Category 1)

Skin sensitization (Category 1)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Toxic if swallowed. Toxic: danger of serious damage to health by prolonged exposure through inhalation.

May cause cancer. May cause heritable genetic damage. May impair fertility. May cause harm to the unborn child. Very toxic by inhalation. Causes burns. Harmful in contact with skin. May cause sensitization by inhalation and skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP]

Pictogram

Signal word Danger

Hazard statement(s)

H301 Toxic if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H360FD May damage fertility. May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P284 Wear respiratory protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

Supplemental Hazard none

Statements

Restricted to professional users.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrases(s)

R45 May cause cancer.

R46 May cause heritable genetic damage.

R60 May impair fertility.

R61 May cause harm to the unborn child.

R21 Also harmful in contact with skin.

R25 Also toxic if swallowed.

R26 Also very toxic by inhalation.

R48/23 Also toxic: danger of serious damage to health by prolonged exposure through inhalation.

R34 Causes burns.

R42/43 May cause sensitization by inhalation and skin contact.

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R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

S-phrase(s)

S53 Avoid exposure - obtain special instructions before use.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60 This material and its container must be disposed of as hazardous waste.

S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Restricted to professional users.

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula : $\text{CrNa}_2\text{O}_4 \cdot 4\text{H}_2\text{O}$

Molecular Weight : 234,03 g/mol

Component Concentration

Sodium chromate tetrahydrate Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

CAS-No. 10034-82-9

EC-No. 231-889-5

Index-No. 024-018-00-3

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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.

If swallowed

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

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

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

Special hazards arising from the substance or mixture

Sodium oxides, Chromium oxides

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

no data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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

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.

Methods and materials for containment and cleaning up

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Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed

containers for disposal.
 Reference to other sections
 For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling
 Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use.
 Provide appropriate exhaust ventilation at places where dust is formed.
 Conditions for safe storage, including any incompatibilities
 Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
 hygroscopic
 Specific end uses
 no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
 Components with workplace control parameters
 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.
 The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
 Immersion protection
 Material: Nitrile rubber
 Minimum layer thickness: 0,11 mm
 Break through time: > 480 min
 Material tested: Dermatrill® (Z677272, Size M)
 Splash protection
 Material: Nitrile rubber
 Minimum layer thickness: 0,11 mm
 Break through time: > 30 min
 Material tested: Dermatrill® (Z677272, Size M)
 data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, 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 Industrial Hygienist familiar with the specific 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 a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
 a) Appearance Form: solid
 b) Odour no data available
 c) Odour Threshold no data available

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d) pH no data available
 e) Melting point/freezing point no data available
 f) Initial boiling point and no data available boiling range
 g) Flash point not applicable
 h) Evaporation rate no data available
 i) Flammability (solid, gas) no data available
 j) Upper/lower flammability or explosive limits no data available
 k) Vapour pressure no data available
 l) Vapour density no data available
 m) Relative density no data available
 n) Water solubility no data available
 o) Partition coefficient: n- octanol/water no data available
 p) Autoignition temperature no data available
 q) Decomposition temperature no data available
 r) Viscosity no data available
 s) Explosive properties no data available
 t) Oxidizing properties no data available
 Other safety information no data available

10. STABILITY AND REACTIVITY

Reactivity no data available
 Chemical stability no data available
 Possibility of hazardous reactions no data available
 Conditions to avoid Avoid moisture.
 Incompatible materials Strong reducing agents, Organic materials, Powdered metals
 Hazardous decomposition products Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
 Acute toxicity LD50 Dermal - rabbit - 101 mg/kg
 Remarks: Behavioral:Somnolence (general depressed activity). Kidney, Ureter, Bladder:Other changes.
 Prolonged skin contact may cause skin irritation and/or dermatitis.
 Skin corrosion/irritation no data available
 Serious eye damage/eye irritation no data available
 Respiratory or skin sensitization May cause allergic respiratory and skin reactions
 Germ cell mutagenicity May alter genetic material.
 In vivo tests showed mutagenic effects
 Genotoxicity in vitro - Hamster - ovary DNA damage
 Genotoxicity in vitro - Hamster - Embryo Morphological transformation.
 Carcinogenicity This is or contains a component that has been reported to be carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification.
 Possible human carcinogen IARC: 1 - Group 1: Carcinogenic to humans (Sodium chromate tetrahydrate)
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May cause congenital malformation in the fetus.
 Presumed human reproductive toxicant
 May cause reproductive disorders.
 Specific target organ toxicity - single exposure
 no data available
 Specific target organ toxicity - repeated exposure
 Inhalation - Causes damage to organs through prolonged or repeated exposure.
 Aspiration hazard
 no data available
 Potential health effects
 Inhalation May be fatal if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
 Ingestion Toxic if swallowed. Causes burns.
 Skin May be fatal if absorbed through skin. Causes skin burns.
 Eyes
 Causes eye burns.
 Signs and Symptoms of Exposure
 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
 Additional Information
 RTECS: GB2958300

12. ECOLOGICAL INFORMATION

Toxicity no data available
 Persistence and degradability no data available
 Bioaccumulative potential no data available
 Mobility in soil no data available
 Results of PBT and vPvB assessment no data available
 Other adverse effects Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
 Product
 Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

UN number
 ADR/RID: 3288 IMDG: 3288 IATA: 3288
 UN proper shipping name
 ADR/RID: TOXIC SOLID, INORGANIC, N.O.S. (Sodium chromate tetrahydrate)
 IMDG: TOXIC SOLID, INORGANIC, N.O.S. (Sodium chromate tetrahydrate)
 IATA: Toxic solid, inorganic, n.o.s. (Sodium chromate tetrahydrate)
 Transport hazard class(es)
 ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1
 Packaging group
 ADR/RID: II IMDG: II IATA: II
 Environmental hazards
 ADR/RID: no IMDG Marine pollutant: no IATA: no
 Special precautions for user
 no data available

15 - REGULATORY INFORMATION

N/A

16. Other Information

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Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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