

MATERIAL SAFETY DATA SHEET

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Product Name: Sodium chromate tetrahydrate

CAS No.: 10034-82-9

Version: 0

1. Identification				
Product Code	: 90546			
Company Name	: Advent Chen	nbio Private Limited		
Address		W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.		
E-mail		chembio.com		
WEBSITE	: <u>www.advente</u>	chembio.com		
Company Phone Number	: 022-2769083	7		
2. Composition/Information	on Ingredients			
Ingredient		CAS No	Percent	
SODIUM CHROMATE TETR	AHYDRATE	10034-82-9	99-100 %	
3. Hazards Identification				
Saf-T-Data	EYES, SKIN CANC	AND BLOOD. MAY ER HAZARD. CAN	TORY SYSTEM, LIVER, KIDNEYS, CAUSE ALLERGIC REACTION. CAUSE CANCER. duration and level of exposure.	
Health Rating	: 3 - Sev	ere (Cancer Causing)	
Flammability Rating	: 0 - Nor	ne	<i>"</i>	
Reactivity Rating Contact Rating		ere (Oxidizer) ere (Corrosive)		
Potential Health Effects	: 5 - Sev	ere (Corrosive)		
Inhalation Ingestion	membr ulcerat include breathi Higher : Corros	anes and upper respi ion and perforation of sore throat, coughin ng. May produce pul exposures may caus ive. Swallowing can	active to tissues of the mucous ratory tract. May cause of the nasal septum. Symptoms may ng, shortness of breath, and labored lmonary sensitization or allergic asthma. e pulmonary edema. cause severe burns of the mouth, throat, ath. Can cause sore throat, vomiting,	
	collaps	e, dizziness, intense	t gastroenteritis, peripheral vascular thirst, muscle cramps, shock, coma, iver damage and acute renal failure.	

duat Name. Codium abramata t	atrabudrata	CAS No.: 10034-82-9	Version: 0	
duct Name: Sodium chromate t	etranydrate	CAS NO.: 10034-82-9	version: 0	
Skin Contact	Dusts and s broken skin may cause s	Symptoms of redness, pain, and severe trong solutions may cause severe irritat may cause ulcers (chrome sores) and a systemic poisoning, affecting kidney an skin sensitization.	ion. Contact with bsorption, which	
Eye Contact	: Corrosive.	Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. May cause corneal injury or blindness.		
Chronic Exposure	of the nasal and ulcerati	prolonged exposure can cause ulcerati septum, respiratory irritation, liver and on of the skin. Ulcerations at first may the to the bone producing "chrome hole inogen.	kidney damage be painless, but	
Aggravation of Pre-existing Conditions	: Persons wit sensitization	h pre-existing skin disorders, asthma, a 1 to chromic acid or chromates may be s of this material.	-	

General information	: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention
Inhalation	 immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	 If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin Contact	: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact	: Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

5. Fire fighting measures	
Fire	: Not combustible, but substance is a strong oxidizer and its heat of reaction with reducing agents or combustibles may cause ignition. Releases oxygen, upon decomposition, which enhances combustion.
Explosion	: Contact with oxidizable substances may cause extremely violent combustion.
Fire Extinguishing Media	: Flood with large amounts of water. Water spray may be used to keep fire exposed containers cool. Do not allow water runoff to enter sewers or waterways.

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oduct Name: Sodium chromate tetra	ydrate	CAS No.: 10034-82-9	Version: 0
Special Information	approved self-contained	ear full protective clothing breathing apparatus with demand or other positive	full facepiece
6. Accidental Release Measures			
Personal precautions, protective equipment and emergency procedures	spaces before entering the	connel away. Keep upwind hem. Avoid inhalation of spilled material unless w	dust. Do not touch
Methods and material for containment and cleaning up	: Sweep up and place in waste.	n a clearly labeled conta y to remove residual conta	
Notification Procedures	: Prevent entry into wate	rways, sewer, basements ge amounts are involved.	
		or spillage if safe to do so	

7. Handling	and Storage
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Precautions for safe handling	: Protect from physical damage. Store in a cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. Do not store on wooden floors. Wear special protective equipment for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
Conditions for safe storage, including any incompatibilities	: Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.
8. Exposure Controls Personal Prot	ection

Control parameters		
Occupational exposure limits		
OSHA Permissible Exposure Limit		For chromic acid and chromates, as $CrO3 = 0.1 \text{ mg/m3}$ (ceiling)
(PEL):		
ACGIH Threshold Limit Value	:	For water-soluble $Cr(VI)$ compounds, as $Cr = 0.05 \text{ mg/m3}$ (TWA), A1 -
(TLV)		confirmed human carcinogen.
Ventilation System	:	A system of local and/or general exhaust is recommended to keep
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Personal Respirators (NIOSH Approved):	 generally preferre contaminant at its work area. Please Ventilation, A M for details. If the exposure lir worn for up to ten concentration spe- respirator supplier respirator may be maximum use cor agency, or respira instances where th positive-pressure, 	res as low as possible. Local exh d because it can control the emis source, preventing dispersion o refer to the ACGIH document, I anual of Recommended Practic nit is exceeded, a half-face dust/ a times the exposure limit or the cified by the appropriate regulat r, whichever is lowest. A full-fac worn up to 50 times the exposure tor supplier, whichever is lowes ne exposure levels are not known air-supplied respirator. WARNI protect workers in oxygen-defic	ssions of the f it into the general Industrial es, most recent edition, mist respirator may be maximum use ory agency or ce piece dust/mist re limit, or the opriate regulatory t. For emergencies or n, use a full-facepiece ING: Air-purifying
Skin Protection		protective clothing, including be as, as appropriate, to prevent skin	
Eye Protection:	: Use chemical safe	ety goggles and/or full face shiel ions is possible. Maintain eye w	d where dusting or
Other		nated with this material may be a taminated clothing as soon as po	
Respiratory protection Hygiene measures	: In case of inadequ : Always observe g handling the ma Routinely wash	ate ventilation use suitable resp good personal hygiene measures terial and before eating, drin work clothing and protective wide eyewash station and safety	irator. s, such as washing after king, and/or smoking. equipment to remove

9. Physical and Chemical Properties

Appearance	:	Yellow, deliquescent crystals.
Odor	:	Odorless
рН	:	6.0 (1% solution)
Melting point/freezing point	:	792C (1458F)
Initial boiling point and boiling range	:	No information found
Flash Point	:	No information found
Vapor pressure	:	No information found.
Vapor density	:	No information found
Relative density	:	No information found.
Solubility in water	:	Completely soluble in water
Solubility (other)	:	No data available.
Formula	:	Na2CrO4.4H2O
Molecular Weight	:	234.03 g/mol



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10. Stability and Reactivity	
Stability	: Stable under ordinary conditions of use and storage.
Hazardous Decomposition	: Burning may produce chrome oxides.
Products	
Hazardous Polymerization	: This substance does not polymerize.
Incompatibilities:	: Flammable and combustible material. Any combustible, organic or other readily oxidizable material (paper, wood, sulfur, aluminum or plastics).
Conditions to Avoid:	: Heat, incompatibles.

1. Toxicological Information

Toxicological Data:

Oral rat LD50: 136 mg/kg. Investigated as a tumorigen, mutagen, reproductive effector.

Cancer Lists							
Ingredient	IARC Monographs on	US. National Toxicology	US. OSHA Specifically				
	the Evaluation of	Program (NTP) Report	Regulated Substances				
	Carcinogenic Risks to	on Carcinogens	(29 CFR 1910.1001-				
	Humans DIOXANE	DIOXANE	1050)				
Sodium Chromate (7775-	1	Yes	N				
11-3)							

12. Ecological Information	
Environmental Fate	: When released into the soil, this material may leach into groundwater. When released into water, this material is not expected to evaporate significantly. This material may bioaccumulate to some extent. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition
Environmental Toxicity	 Dangerous to the environment. Very toxic to aquatic organisms; may cause long term adverse effects in the aquatic environment. 96 Hr LC50 Pimephales promelas: 3 mg/L; 96 Hr LC50 Lepomis macrochirus: 118 mg/L [static]; 72 Hr EC50 Daphnia magna: 0.031-0.044 mg/L.



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13. Disposal consideration	
Disposal instructions	: Discharge, treatment, or disposal may be subject to national, state, or local laws. 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.
Contaminated packaging	: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN3085	SODIUM CHROMATE	5.1, 8	III	No
IMDG	UN3085	SODIUM CHROMATE	5.1, 8	III	No
IATA	UN3085	SODIUM CHROMATE	5.1, 8	III	No

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	
Issue Date :01/08/2014	

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