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Product Name: Potassium chromate

CAS No.: 7789-00-6

Version: 0

Product Code	: 90210, 90501				
Company Name	Advent Chembio Private Limited				
Address	: W-288, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.				
E-mail	: info@adventchembio.com				
WEBSITE	: <u>www.adventchembio.com</u>				
Company Phone Number	: 022-27690837				
2. Composition/Information	on Ingredients				
Ingredient	CAS No Percent				
POTASSIUM CHROMATE	7789-00-6 99-100 %				
3. Hazards Identification					
Emergency Overview Saf-T-Data	 DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE A FIRE. CORROSIVE. CAUSES SEVERE BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED. AFFECTS THE RESPIRATORY SYSTEM, LIVER, KIDNEYS, EYES, SKIN AND BLOOD. MAY CAUSE ALLERGIC REACTION. CANCER HAZARD. CAN CAUSE CANCER. Risk of cancer depends on duration and level of exposure. 				
Health Rating Flammability Rating Reactivity Rating Contact Rating Potential Health Effects	 3 - Severe (Cancer Causing) 0 - None 3 - Severe (Oxidizer) 3 - Severe (Corrosive) 				
Inhalation	: Corrosive. Extremely destructive to tissues of the mucous membranes and upper respiratory tract. May cause ulceration and perforation of the nasal septum. Symptoms may include sore throat, coughing, shortness of breath, and labored breathing. May produce pulmonary sensitization or allergic asthma. Higher exposures may cause pulmonary edema.				
Ingestion	 Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea. May cause violent gastroenteritis, peripheral vascular collapse, dizziness, intense thirst, muscle cramps, shock, coma, 				

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	abnormal bleeding, fever, liver damage and acute renal failure.				
Skin Contact	 Corrosive. Symptoms of redness, pain, and severe burn can occur. Dusts and strong solutions may cause severe irritation. Contact with broken skin may cause ulcers (chrome sores) and absorption, which may cause systemic poisoning, affecting kidney and liver functions. May cause skin sensitization. 				
Eye Contact	 Corrosive. Contact can cause blurred vision, redness, pain and severe tissue burns. May cause corneal injury or blindness. 				
Chronic Exposure	 Repeated or prolonged exposure can cause ulceration and perforation of the nasal septum, respiratory irritation, liver and kidney damage and ulceration of the skin. Ulcerations at first may be painless, but may penetrate to the bone producing "chrome holes." Known to be a human carcinogen. 				
Aggravation of Pre-existing Conditions	: Persons with pre-existing skin disorders, asthma, allergies or known sensitization to chromic acid or chromates may be more susceptible to the effects of this material.				

4. First Aid Measures	
General information	: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
Inhalation	 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.

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Explosion	: Contact with oxidizable substances may cause extremely violent combustion. Becomes a possible explosion hazard when shocked, heated, or exposed to hydrazine.
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.
Special Information	: In the event of a fire, wear full protective clothing and NIOSH- approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures	
Personal precautions, protective equipment and emergency procedures	: Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and material for containment and cleaning up	: Sweep up and place in a clearly labeled container for chemical waste.
Notification Procedures	 Clean surface thoroughly to remove residual contamination. Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	: 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	 Keep in a tightly closed container. 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,	: Keep containers tightly closed. Store in cool, dry place. Store in a



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including any incompatibilities

well-ventilated place.

8. Exposure Controls Personal Protection **Control parameters Occupational exposure limits** For chromic acid and chromates, as CrO3 = 0.1 mg/m3 (ceiling) OSHA Permissible Exposure Limit : (PEL) ACGIH Threshold Limit Value (TLV) For water-soluble Cr(VI) compounds, as Cr = 0.05 mg/m3 (TWA), A1 confirmed human carcinogen. **Ventilation System** A system of local and/or general exhaust is recommended to keep : employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details. **Personal Respirators (NIOSH** If the exposure limit is exceeded and engineering controls are not Approved): feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. **Skin Protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. **Eye Protection:** Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quickdrench facilities in work area. Other Clothing contaminated with this material may be an increased fire : hazard. Wash contaminated clothing as soon as possible.



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- Respiratory protection Hygiene measures
- In case of inadequate ventilation use suitable respirator.

: 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.

9. Physical and Chemical Properties

Appearance	:	Yellow crystals
Odor	:	Odorless
рН	:	Aqueous soln. is alkaline to litmus.
Melting point/freezing point	:	975C (1787F)
Initial boiling point and boiling range	:	No information found.
Flash Point	:	No information found
Vapor pressure	:	Zero (mm Hg)
Vapor density	:	6.7(Air=1)
Relative density	:	2.73
Solubility in water	:	69.9g/100 g water @ 20C (68F).
Solubility (other)	:	No data available.
Formula	:	K2CrO4
Molecular Weight	:	194.19 g/mol

:

10. Stability and Reactivity

Stability Hazardous Decomposition Products Hazardous Polymerization Incompatibilities:	::	Stable under ordinary conditions of use and storage. Burning may produce chrome oxides. This substance does not polymerize. Reducing agents, acetone plus sulfuric acid, boron plus silicon, ethylene glycol, iron, hydrazine, and hydroxylamine. 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: 180 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			



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Toxicity to Aquatic P		: No data av	ailable.					
Persistence and degr	•	N. I.						
Biodegradation Prod			No data available.No data available.					
BOD/COD ratio Prod		: No data av	allable.					
Bioaccumulative pot		No data av	ilabla an bianagumu	lation				
Bioconcentration fac Product	tor (BCF)	: No data av	ailable on bioaccumu	liation.				
Partition coefficient	n actorial /	: No data av	vilable					
water (log Kow) Prod		: NO Udld dV	allable.					
Mobility in soil	luct	: No data av	ailahle					
Other adverse effect	c .	: No data av						
	5	. 110 data uv						
13. Disposal consider	ration							
Disposal instructions		or local la treatment	treatment, or dispos ws. Dispose of con and disposal facility tions, and product ch	itents/container in accordance v	to an appropriate with applicable laws			
Contaminated packa	ging	: Since empt						
14. Transport Inform	ation							
UN No.	UN proper sh	nipping name	Hazard Class(es)	Packaging group	Marine Pollutant			



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DOT	UN3085	POTASSIUM CHROMATE	5.1, 8	III	No
IMDG	UN3085	POTASSIUM CHROMATE	5.1, 8	III	No
ΙΑΤΑ	UN3085	POTASSIUM 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

Version : 0

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