



## **ARIHANT CHEMICAL CORPORATION & J.J ENTERPRISE**

For paints / inks / plastic / Rubber industries Raw material available with us under self import / Manufacturing / Trading.

### **MATERIAL SAFETY DATA SHEET :- Zinc Tetroxy chrome**

#### **01. Identification Of Substance, Preparation And Company**

**Product name:- ZINC TETROXY CHROMATE**

#### **Manufacturer / Supplier**

Arihant Chemical Corporation.

24/5, Krishna kunj bldg, behind arora

:Arora cinema, opp. Sahakari bhandar

Sewari wadala road, Matunga (C.R) Mumbai- 40019.

CELLULAR:-9820142066 – 9029042066

[info@arihantchemcorp.com](mailto:info@arihantchemcorp.com) or [nilesh@arihantchemcorp.com](mailto:nilesh@arihantchemcorp.com)

#### **2. HAZARD SUMMARY**

Zinc Tetroxy y Chromate can affect you when breathed in & may enter the body through the skin.

Repeated exposure can cause a hole in the bone dividing the inner nose. Nose bleeds and sores are earlier signs.

Exposure can irritate the skin causing rash or skin ulcers. It can also trigger a skin allergy, so that even low exposures cause rash.

#### **3. IDENTIFICATION**

Zinc Tetroxy Chromate is a yellow powder. It is used as a rust inhibitor in metal paints

#### **4. HOW TO DETERMINE IF YOU ARE BEING EXPOSED**

Exposure to hazardous substances should be routinely evaluated. This may include collecting personal and area air samples. You can obtain copies of sampling results from your employer.

If you think you are experiencing any work-related health problems, see a doctor trained to recognize occupational diseases. Take this fact Sheet with you.

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#### **5. WORKPLACE EXPOSURE LIMITS**

The recommended airborne exposure limit is 0.05 mg/m<sup>3</sup> for Chromium VI compounds measured as Chromium averaged over an 8-hour work-shift.

The above exposure limits are for air levels only. When skin contact also occurs, you may be overexposed, even though air levels are less than the limits listed above.

#### **6. WAYS OF REDUCING EXPOSURE**

Where possible, enclose operations and use local exhaust ventilation at the site of chemical release. If local exhaust ventilation or enclosure is not used, respirators should be worn. Wear protective work clothing.

Wash thoroughly immediately after exposure to Zinc Tetraoxy Chromate and at the end of the work-shift.

Post hazard and warning information in the work area. In addition, as part of an ongoing education and training effort, communicate all information on the health and safety hazards of Zinc Tetraoxy Chromate to potentially exposed workers.

#### **7. HEALTH HAZARD INFORMATION**

Acute Health Effects

The following acute (short-term) health effects may occur immediately or shortly after exposure to Zinc Tetraoxy Chromate:

Exposure, especially to higher levels, may irritate the throat and air passages. Eye contact may cause irritation.

#### **8. Chronic Health Effects**

The following chronic (long-term) health effects can occur at some time after exposure to Zinc Tetraoxy Chromate and can last for months or years:

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#### **Cancer Hazard**

While Zinc Tetroxy Chromate has not been identified as a carcinogen, certain kinds of Chromium compounds, known as hexavalent Chromium or Chromium VI compounds, have been determined to be human carcinogens. Zinc Tetroxy Chromate is such a compound and should therefore be handled with extreme caution.

#### **09. Other Long-Term Effects**

Repeated exposure can cause nose bleeds and sores in the nose. If exposure persists, this can lead to a hole in the bone dividing the inner nose.

Repeated skin contact can cause rash and even skin ulcers.

Skin allergy can occur. Once this develops, even low exposure can trigger rash.

#### **10. MEDICAL TESTING**

Before beginning employment and at regular times after that, the following are recommended: Urine test for Chromates. If symptoms develop or overexposure is suspected, the following may be useful:

Evaluation by a qualified allergist, including careful exposure history and special testing, may help diagnose skin allergy.

Any evaluation should include a careful history of past and present symptoms with an exam. Medical tests that look for damage already done are not a substitute for controlling exposure.

#### **11. WORKPLACE CONTROLS AND PRACTICES**

The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.

Good WORK PRACTICES can help to reduce hazardous exposures. The following work practices are recommended:

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Workers whose clothing has been contaminated by Zinc Tetroxy Chromate should change into clean clothing promptly.

Contaminated work clothes should be laundered by individuals who have been informed of the hazards of exposure to Zinc Tetroxy Chromate.

Eye wash fountains should be provided in the immediate work area for emergency use.

On skin contact with Zinc Tetroxy Chromate, immediately wash or shower to remove the chemical. At the end of the work-shift, wash any areas of the body that may have contacted Zinc Tetroxy Chromate, whether or not known skin contact has occurred.

Do not eat, smoke, or drink where Zinc Tetroxy Chromate is handled, processed, or stored, since the chemical can be swallowed. Wash hands carefully before eating or smoking.

Use a vacuum or a wet method to reduce dust during clean-up. Do not dry sweep.

#### **Clothing**

Avoid skin contact with Zinc Tetroxy Chromate. Wear protective gloves and clothing. Safety equipment suppliers/ manufacturers can provide recommendations on the most

protective glove/ clothing material for your operation.

All protective clothing (suits, gloves, footwear, headgear) should be clean, available each day and put on before work.

#### **Eye Protection**

Eye protection is included in the recommended respiratory protection.

#### **Respiratory Protection**

IMPROPER USE OF RESPIRATORS IS DANGEROUS. Such equipment should only be used if the employer has a written program that takes into account workplace conditions, requirements for worker training, respirator fit testing and medical exams

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#### **12. FIRE HAZARDS**

Zinc Tetroxy Chromate may burn, but does not readily ignite. Use dry chemical, CO<sub>2</sub>, water spray, or foam extinguishers.

#### **13. Toxicological information**

<b>ROUTE</b>	<b>ORGANISM</b>	<b>DOSE</b>
Oral	Rat	LD 50 3118 mg/kg
Intratracheal	Rat	LD 50 16.60 mg/kg
Oral	Mammal(unspecified species)	LD >1500 mg/kg

EEC classified as Carcinogen class C2 for human being.

Animal sufficient Evidence (IARC Group 1 for hexavalent Chromium Compounds). An excess risk for lung and sinonasal cancer has been reported on workers in the Chromate and Chromate Pigment production and Chromium plating industries. Two samples of Strontium were tested on rats by intrabronchial implantation, producing an high incidence of Bronchial Carcinomas, intrapleural and intramuscular injection of Strontium Chromate produced local Sarcomas. Experience on practice.

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

#### **FIRST AID**

Eye Contact

Immediately flush with large amounts of water for at least 15 minutes, occasionally lifting upper and lower lids.

#### **Skin Contact**

Quickly remove contaminated clothing. Immediately wash contaminated skin with large amounts of soap and water.

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#### 14. Transport information :

GGV IMDG CODE : None : UN NO. : 2291 – IMDG CLASS: 6.1 : PACKING GROUP: III  
ICAO/IATA-DGR : None : RID/ADR : None

CAS NUMBER : 49663-84-5

#### 15. PHYSICAL DATA

FORM	POWDER	SOLUBILITY IN	INSOLUBLE
MELTING POINT	316 <sup>0</sup> C	COLOUR	YELLOW
BOILING POINT	N/A	ODOR	ODORLESS
FREZING POINT	N/A	MOLECULAR WEIGHT	578, 95
EVAPORATION RATE	N/A	EVAPORATION DENSITY	N/A
OTER DATA		pH	7, 0 + - 0,5

#### 16. WATER SOLUBILITY

Zinc exists as a variety of salts, many of which are highly soluble in water. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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