

**Anurang Zinc Tetroxy Chromate Z - 83**

Version No 2.0 / Issue Date : 10.10.2018

**SECTION 1 : IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product Identifier**

|                          |                                     |
|--------------------------|-------------------------------------|
| <b>Product name</b>      | Anurang Zinc Tetroxy Chromate Z -83 |
| <b>Chemical Type</b>     | Zinc Tetroxy Chromate               |
| <b>C.I. Name</b>         | Pigment Yellow 36.1                 |
| <b>C.I. Number</b>       | 77956                               |
| <b>CAS number</b>        | 49663-84-5                          |
| <b>EINECS /ELINCS NO</b> | 256-418-0                           |

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

|                                 |   |
|---------------------------------|---|
| <b>Relevant identified uses</b> | Anti -corrosive Pigments for Paints & Coating Industry. |
|---------------------------------|---|

**1.3 Details of the manufacturer/importer**

|                                |   |
|--------------------------------|---|
| <b>Registered company Name</b> | Anupam Colours Private Limited  |
| <b>Address</b>                 | 103/105,Kaveri Commercial Premises, Jagannath Mandir Road, Sakinaka Junction, Mumbai-400072 |
| <b>Telephone</b>               | +91 22 28518120   |
| <b>Website</b>                 | www.anupamcoloursacpl.com   |
| <b>Email</b>                   | info@anupamcoloursacpl.com  |

**1.4 Emergency telephone number**

|  |                 |
|--|-----------------|
| <b>Emergency Telephone Number</b>        | +91 22 28518120 |
| <b>Other emergency telephone numbers</b> | +91 260 2410611 |

**SECTION 2 : HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

|                           |   |
|---------------------------|---|
| <b>GHS Classification</b> | Classification according to Regulation (EC) 1272/2008 (EU 'CLP' regulation) and GHS - Acute aquatic toxicity (category 1) / Chronic aquatic toxicity (category 1) |
|---------------------------|---|

**2.2 Label elements**

|                           |                       |
|---------------------------|-----------------------|
| <b>GHS label elements</b> | Data is not available |
|---------------------------|-----------------------|

**2.3 Others Hazards**

|                                |   |
|--------------------------------|---|
| <b>Precautionary Statement</b> | Harmful if swallowed / May cause an allergic skin reaction  |
| <b>Precautionary Statement</b> | Fatal if inhaled / May cause respiratory irritation   |
| <b>Precautionary Statement</b> | May cause genetic defects / May cause cancer / Suspected of damaging fertility or the unborn child. |

## SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

| CAS No     | Chemical Name / Structure                        | C.I. Name                 |
|------------|--|---------------------------|
| 49663-84-5 | Zn <sub>5</sub> CrH <sub>8</sub> O <sub>12</sub> | C. I. Pigment Yellow 36.1 |
|            |  |                           |

### 3.2 Mixtures

See section above for composition of Substances

## SECTION 4 : FIRST AID MEASURES

### 4.1 Description of first aid measures

|                               |  |
|-------------------------------|--|
| On Contact with Eyes          | Wash affected eyes for at least 15 minutes under running water with eyelids held open. If irritation continues, seek medical attention   |
| On Skin Contact<br>If inhaled | Wash thoroughly with soap and water. Seek medical attention in event of irritation<br>If difficulties occur after dust has been inhaled, move to fresh/ open air and seek medical attention. |
| On Ingestion                  | Rinse mouth and then drink plenty of water, Seek medical attention in event of irritation  |

### 4.2 Most Important symptoms and effects, both acute and delayed

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

|                              |  |
|------------------------------|--|
| Suitable extinguishing Media | Water, Mist , Foam , Extinguishing powder Carbon Di Oxide. |
|------------------------------|--|

### 5.2 Special hazards arising from the substrate or mixture

|                 |  |
|-----------------|--|
| Harmful Vapours | The substances / groups of substances mentioned can be released in case of fire. |
|-----------------|--|

### 5.3 Advice for firefighters

|                       |  |
|-----------------------|--|
| Fire Fighting         | Wear breathing apparatus plus protective gloves in the event of a fire.<br>Prevent spillage from entering drains or water courses. |
| Fire/Explosion Hazard | After combustion likely chances of gases like oxides of carbon and nitrogen may emit noxious and toxic fumes.                      |

## SECTION 6: ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| 6.1 Personal Precautions / Protection                       | Avoid dust formation. Use personal protective clothing.  |
| 6.2 Environmental Precautions                               | Contain contaminated water / fire fighting water . Do not discharge in to drains / surface waters / ground water.  |
| 6.3 Methods and Material for<br>containment and cleaning up | For Small Amounts: Pick up with suitable appliance and dispose of.<br>For Large Amounts: Contain with dust binding material and dispose of . Avoid raising dust. |

## SECTION 7: HANDLING AND STORAGE

|   |  |
|---|--|
| 7.1 Precautions for safe Handling                                   | Breathing must be protected when large quantities are decanted without proper exhaust and ventilation. |
| 7.2 Fire and Explosion Precautions                                  | Keep away from open fire and sources of ignition.  |
| 7.3 Conditions for safe storage,<br>including any incompatibilities | Further information on storage conditions: Keep container tightly closed dry; store in a cool place.   |

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control Parameters

|              |   |
|--------------|---|
| O.E.L.       | Components with occupational exposure Limits : Data Not available |
| T.E.E.L. - 0 | Data is not available   |
| T.E.E.L. - 1 | Data is not available   |
| T.E.E.L. - 2 | Data is not available   |
| T.E.E.L. - 3 | Data is not available   |

## 8.2 Personal Protection

|                        |  |
|------------------------|--|
| Eye & Face Protection  | Use Safety glasses with side shields.                                      |
| Skin Protection        | Impervious Gloves (PVC / Rubber)   |
| Respiratory Protection | Avoid inhalation of dust. Dust mask recommended.                           |
| General Protection     | Store / Handle / use in accordance with good industrial hygiene practices. |
| Other Protection       | No special equipment needed when handling small quantities.                |

## SECTION 9: PHYSICAL AND CHEMICALS PROPERTIES

### 9.1 Information on basic Physical and Chemical Properties

|                                    |  |
|------------------------------------|--|
| Form                               | Powder   |
| Colour                             | Bright Greenish Yellow Powder                            |
| Odour                              | Odourless  |
| Odour threshold                    | Not Available  |
| pH Value                           | 6.0-9.0 ( As suspension)                                 |
| Melting Point (°c)                 | Not Known  |
| Freezing Point (°c)                | Not Known  |
| Boiling Point & Boiling Range (°c) | Not Applicable   |
| Upper Explosion Limit              | For Solids not relevant for classification and labelling |
| Lower Explosion Limit              | For Solids not relevant for classification and labelling |
| Ignition Temperature               | Not determined   |
| Vapour Pressure                    | Not applicable   |
| Viscosity ( Cst)                   | Not applicable   |
| Flash Point (°c)                   | Not Available  |
| Evaporation Rate                   | Not Available  |
| Bulk Density ( Gm/ ML)             | 0.35 ±0.10   |

### 9.2 Others Information

|                      |  |
|----------------------|--|
| Self Heating ability | It is not a substance capable of spontaneous heating according to UN transport regulations Class 4.2 |
| Hygroscopy           | Non -hygroscopic nature  |

## SECTION 10: STABILITY AND REACTIVITY

|   |   |
|---|---|
| 10.1 Reactivity                         | No Hazardous reactions if stored and handled as prescribed / indicated                                      |
| 10.2 Chemical Stability                 | The product is stable if stored and handled as prescribed / indicated                                       |
| 10.3 Possibility of Hazardous reactions | Dust explosion hazard   |
| 10.4 Conditions to avoid                | Avoid dust formation. Avoid deposition of dust. Avoid sources of ignition. Avoid electro-static discharges. |
| 10.5 Incompatible Materials             | Substance to avoid : No Substances known that should be avoided   |
| 10.6 Hazardous Decomposition Products   | Refer section No.5  |

## SECTION 11: TOXICOLOGICAL INFORMATION

|                                       |   |
|---------------------------------------|---|
| 11.1 Acute Toxicity                   | LD 50 rat ( Oral ) : data is not available<br>LC50 rat ( Intratracheal ) : data is nit available<br>LC50 ( Mammal / unspecified species ) : Data is not available |
| 11.2 Irritation / Eye damage          | No Information Available  |
| 11.3 Ingestion                        | No Information available  |
| 11.4 Respiratory/ Skin Sensitization  | Skin sensitizing effects were not observed in animal studies.   |
| 11.5 Mutagenicity                     | Data is not available to make classification  |
| 11.6 Carcinogenicity / IARC           | Class -1  |
| 11.7 Carcinogenicity / NTP            | 1   |
| 11.8 Carcinogenicity / MEXICO         | No Information available  |
| 11.9 Reproductivity                   | Skin sensitizing effects were not observed in animal studies.   |
| 11.10 STOT – Single Exposure          | Data is not available to make classification.   |
| 11.11 STOT – Repeated Exposure        | Data is not available to make classification.   |
| 11.12 Aspiration Hazard               | Data is not available to make classification.   |
| 11.13 Endocrine Disruptor Information | No Information available  |

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity -

|                    |  |
|--------------------|--|
| 12.1.1 Ecotoxicity | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system |
|--------------------|--|

### 12.2 Persistence and degradability :

|                                   |   |
|-----------------------------------|---|
| 12.2.1 Persistence : Water / Soil | Based on information available . May persist. |
| 12.2.2 Persistence : Air          | Based on information available . May persist  |

### 12.3 Bioaccumulative Potential : Significant accumulation in organisms is not to be expected.

|                                  |                                       |
|----------------------------------|---------------------------------------|
| 12.3.1 Bioaccumulative potential | No Data available for all ingredients |
|----------------------------------|---------------------------------------|

### 12.4 Mobility in Soil .:

|                         |  |
|-------------------------|--|
| 12.4.1 Mobility in Soil | Will likely be mobile in the environment due to its water solubility |
|-------------------------|--|

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Methods : Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

**SECTION 14: TRANSPORT INFORMATION**

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|               |         |
|---------------|---------|
| 14.1 UN - ADR | UN 3077 |
| 14.2 UN-IMDG  | UN 3077 |
| 14.3 UN -IATA | UN 3077 |
| 14.4 UN-ADN   | UN 3077 |
| 14.5 UN-RID   | UN 3077 |
|               |         |

|                                 |  |
|---------------------------------|--|
| 14.6 Proper Shipping Name - ADR | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. |
| 14.7 Proper Shipping Name -IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. |
| 14.8 Proper Shipping Name -IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. |
| 14.9 Proper Shipping Name -ADN  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. |
| 14.10 Proper Shipping Name -RID | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O. |
|                                 |  |

|   |   |
|---|---|
| 14.11 Transport Documents Description - ADR | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, ( E)              |
| 14.11 Transport Documents Description - ADR | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE POLLUTANT. |
| 14.12 Transport Documents Description - ADR | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, ( E)              |
| 14.13 Transport Documents Description - ADR | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, ( E)              |
| 14.14 Transport Documents Description - ADR | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, ( E)              |
|   |   |

**SECTION 15: REGULATORY INFORMATION**

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Safety, health and environmental regulations/ legislation specific for the substance or Mixture: At present data is not available with us. To our present knowledge the product is not a substance subject to mandatory marking in accordance with EEC-Directive 67/548/EEC and 93/72/EEC..

**SECTION 16: OTHER INFORMATION**

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The data provided in this document (Material Safety Data Sheet) are based on our current knowledge / experience and describe the product only with regard to safety requirement. This Material safety data sheet is neither a certificate of Analysis (COA) nor technical specification data sheet. The information provided in Material safety data sheet are for guidance of ie user and verification under actual conditions is recommended.

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