



# 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 :- Chrome Oxide Green

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### 1. Hazards Identification

#### 1.1 Classification of the Substance or Mixture

*Classification according to EC  
Regulation 1272/2008*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Classification according to EC  
Regulation No. 67/548 or No. 1999/45*

*The material is not subject to classification according to EC lists.*

*Safety Phrases:*

*Possible Environmental Effects:*

#### 1.2 Label Elements

*Classification according to EC  
Regulation 1272/2008*

*No classification required according to the CLP/GHS guidelines.*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 1.3 Other Hazards

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**Composition/Information on Ingredients**

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## 2.

### 2.1 Substance

### 2.2 Mixture

*Chemical Characterization:* Chromium(III)-oxide, C.I. Pigment Green 17.77288  
REACH Reg. No.: 01-2119433951-39-0000

*Hazardous Ingredients:*

Chrome-III-oxide	99 %	CAS-Nr: 1308-38-9
		EINECS-Nr: 215-160-9
		EC-Nr:

*Additional information:*

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## 3. First Aid Measures

### 3.1. Description of the First Aid Measures

*General information:*

*Take affected persons out into the fresh air.*

*After inhalation:*

*Supply fresh air. If required give artificial respiration. Keep patient warm.*

*In case of unconsciousness place patient stable in side position for transportation.*

*If breathing is difficult call a physician.*

*After skin contact:*

*Wash off with water.*

*After eye contact:*

*Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.*

*After ingestion:*

*No special measures required.*

### 3.2 Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*No further information available.*

*Effects:*

### 3.3 Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No further information available.*

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## 4. Fire-Fighting Measures

### 4.1 Extinguishing Media

*Suitable extinguishing media:*

*Water mist, extinguishing powder, foam, carbon dioxide.*

*Unsuitable extinguishing media:*

*None known.*

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### 4. 2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*No special hazards.*

### 4. 3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

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## 5. Accidental Release Measures

### 5.1 Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Ensure adequate ventilation.*

*Wear protective clothing.*

*Floor may be slippery; use care to avoid falling.*

### 5. 2 Environmental Precautions

*Environmental precautions:*

*Contact local authorities if product pollutes soil or vegetation.*

### 5. 3 Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.*

### 5. 4 Reference to other Sections

*Protective clothing, see Section 8.*

*Dispose of contaminated material according to Section 13.*

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## 6. Handling and Storage

### 6.1 Precautions for Safe Handling

*Instructions on safe handling:*

*No special measures required.*

*Hygienic measures:*

### 6. 2 Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store dry and in the original tightly sealed containers.*

*Requirements for storage areas and containers:*

*Information on fire and explosion protection:*

*Storage class (VCI):*

*Further Information:*

### 6. 3 Specific End Use(s)

*Further information:*

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## **7. Exposure Controls/Personal Protection**

### **7.1 Parameters to be Controlled**

*Parameters to be controlled (DE):*

*Parameters to be controlled (EC):*

*Derived No-Effect Level (DNEL):*

*Predicted No-Effect Concentration (PNEC):*

*Additional Information:*

## 7.2 Exposure Controls

TRGS 900 AGW:

Chrom-III-oxide (based on Cr), CAS 1308-38-9, TWA: 2 mg/m<sup>3</sup> (inhalable dust fraction)

Average value: 2 mg/m<sup>3</sup> (8h) inhalable fraction.

Short term value: 2 mg/m<sup>3</sup> (15 min) inhalable fraction.

*Technical protective measures:*

*While working with the product, the air at the work station has to be controlled and the exposed person observed.*

*Facilities storing or utilizing this material should be equipped with an eyewash and shower facility.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

*Wash contaminated clothes before reuse.*

*Respiratory protection:*

*Dust mask.*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

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## 8. Physical and Chemical Properties

### 8.1 Information on Basic Physical and Chemical Properties

Form:	powder
Color:	green
Odor:	odorless
Odor threshold:	No information available.

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pH-Value:	5-7 (50 g/l H <sub>2</sub> O)
Melting temperature:	2435°C (4415°F)
Boiling temperature:	4000°C (1013 hPa)
Flash point:	not available
Evaporation rate:	No information available.
Flammability (solid, gas):	not available
Upper explosion limit:	no information available
Lower explosion limit:	no information available
Vapor pressure:	not applicable
Vapor density:	
Density:	5.2 g/cm <sup>3</sup> (20°C)
Solubility in water:	insoluble
Coefficient of variation (n-Octanol/Water):	not applicable
Auto-ignition temperature:	No information available.
Decomposition temperature:	No data available.
Viscosity, dynamic:	not applicable
Explosive properties:	not applicable
Oxidizing properties:	no information available
Bulk density:	800 kg/m <sup>3</sup>

### 8.2 Further Information

Solubility in solvents:

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

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*Other information:*

*No further information.*

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### 9. Stability and Reactivity

#### 9.1 Reactivity

*Stable if used according to specifications.*

#### 9.2 Chemical Stability

*The product is stable.*

#### 9.3 Possibility of Hazardous Reactions

*None if handled and stored according to specifications.*

#### 9.4 Conditions to Avoid

*Conditions to avoid:*

*Avoid formation of dust.*

*Thermal decomposition:*

#### 9.5 Incompatible Materials

*No information available.*

#### 9.6 Hazardous Decomposition Products

*None if stored and handled according to specifications.*

#### 9.7 Further Information

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### 10. Toxicological Information

#### 10.1 Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral: > 5000 mg/kg (rat)*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*> 5.41 mg/l (4h; rat)*

*Primary effects*

*Irritant effect on skin:*

*No irritant effect known.*

*Irritant effect on eyes:*

*No irritant effect known.*

*Inhalation:*

*No irritant effect known.*

*Ingestion:*

*No irritant effect known.*

*Sensitization:*

*No sensitizing effect (guinea pig).*

*Mutagenicity:*

*Not mutagenic (OECD 471 Bacterial Reverse Mutation Test)*

*Reproductive toxicity:*

*No data available.*



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*Carcinogenicity:*

*No data available.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No data available.*

*Additional toxicological information:*

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### 11. Ecological Information

#### 11.1 Aquatic Toxicity

*Chromium-III-oxide*

*Fish toxicity:*

*LC50: > 10000 mg/l (96h, Brachydanio rerio)*

*Daphnia toxicity:*

*No information available.*

*Bacteria toxicity:*

*EC50: > 10 000 mg/l (3h, active sludge)*

*Algae toxicity:*

*No information available.*

#### 11.2 Persistency and Degradability

*No information available.*

#### 11.3 Bioaccumulation

*No information available.*

#### 11.4 Mobility

*No information available.*

#### 11.5 Results of PBT- und vPvP Assessment

*No data available.*

#### 11.6 Other Adverse Effects

*Water hazard class:*

*Not hazardous.*

*Behaviour in sewage systems:*

*Further ecological effects:*

*No special effects or hazards known.*

*AOX Value:*

*Product does not contain any organically bound halogens which influence the AOX value of discard water.*

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### 12. Disposal Considerations

#### 12.1 Waste Treatment Methods

*Product:*

*European Waste Code (EWC):*

*In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.*

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*Uncleaned packaging:*

*Packaging may be disposed of in the same manner as the product.*

*Waste Code No.:*

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### 13. Transport Information

#### 13.1 UN Number

*ADR, IMDG, IATA*

#### 13.2 UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR (land transportation).*

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

#### 13.3 Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel no.:*

*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

#### 13.4 Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

#### 13.5 Environmental Hazards

*None*

#### 13.6 Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

#### 13.7 Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

#### 13.8 Further Information

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## 14. Regulatory Information

### 14.1 Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*0, not hazardous*

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*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

### 14.2 Chemical Safety Assessment

*A Chemical Safety Assessment is not necessary for this product.*

### 14.3 Further Information

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## 15. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*