



Distributed by:  
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**SAFETY DATA SHEET**  
**Chromium Oxide Green**  
**Laguna Clay Company # MCHRGR**

## 1. Identification

### Product identifier

**Product name** Chromium Oxide Green  
**Product number** G4099,G5099,G6099,G7099,G8599,G6099HP,GA4090,GA5090,GA6090,Accrox  
R,M100C,GO3955,GO4099R,GO6099R, G112  
**CAS number** 1308-38-9

### Recommended use of the chemical and restrictions on use

**Application** Industrial color

### Details of the supplier of the safety data sheet

**Supplier** Huntsman Pigments Americas LLC  
P.O. Box 4980  
The Woodlands, TX 77387  
+1 301 210 3400 / +1 323 269 7311  
MSDS@huntsman.com

### Emergency telephone number

**Emergency telephone** CHEMTREC: (800) 424-9300 (Contract No: 191118)

## 2. Hazard(s) identification

### Classification of the substance or mixture

**OSHA Regulatory Status** This Product is Hazardous under the OSHA Hazard Communication Standard.  
**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Not Classified

### Label elements

**Hazard statements** NC Not Classified

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

## 3. Composition/information on ingredients

### Mixtures

<b>CHROMIUM (III) OXIDE</b>	<b>&gt; 98%</b>
CAS number: 1308-38-9	REACH registration number: Proprietary

**Classification**  
Not Classified

The Full Text for all Hazard Statements are Displayed in Section 16.

## Chromium Oxide Green

**Composition comments** Pigment Green 17, C.I. 77288

### 4. First-aid measures

#### Description of first aid measures

<b>Inhalation</b>	If exposed to excessive levels of dust or fumes, remove to fresh air. Get medical attention if cough or other symptoms develop.
<b>Ingestion</b>	Contact physician if larger quantity has been consumed.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

#### Most important symptoms and effects, both acute and delayed

<b>Inhalation</b>	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Ingestion</b>	Due to the physical nature of this material it is unlikely that swallowing will occur.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause temporary eye irritation.

#### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations.

### 5. Fire-fighting measures

#### Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media suitable for the surrounding fire.

#### Special hazards arising from the substance or mixture

<b>Flammability Class</b>	No Uniform Fire Code noted.
<b>Specific hazards</b>	Fire conditions may produce small amounts of hexavalent chromium.

#### Advice for firefighters

**Protective actions during firefighting** N/A

**Special protective equipment for firefighters** Use protective equipment appropriate for surrounding materials.

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** For personal protection, see Section 8.

#### Environmental precautions

**Environmental precautions** Avoid spreading dust or contaminated materials. Avoid discharge into drains or watercourses or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### Methods and material for containment and cleaning up

## Chromium Oxide Green

**Methods for cleaning up** Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Avoid generation and spreading of dust. Avoid the spillage or runoff entering drains, sewers or watercourses.

**Reference to other sections** For personal protection, see Section 8.

### 7. Handling and storage

#### Precautions for safe handling

**Usage precautions** Do not eat, drink or smoke when using the product. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. For pallets wrapped in polyethylene plastic, removal may cause an electrostatic spark; removal of the wrap should not be done in the presence of flammable vapors.

#### Conditions for safe storage, including any incompatibilities

**Storage precautions** Keep container dry.

#### Specific end uses(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### 8. Exposure Controls/personal protection

#### Control parameters

#### Occupational exposure limits

#### **CHROMIUM (III) OXIDE**

Long-term exposure limit (8-hour TWA): ACGIH 0.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): ACGIH

ACGIH = American Conference of Governmental Industrial Hygienists.

**Ingredient comments** Threshold Limit Values (2005), ACGIH, by the American Conference on Governmental Industrial Hygienists.

#### Exposure controls

#### **Protective equipment**



#### **Appropriate engineering controls**

Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

#### **Eye/face protection**

The following protection should be worn: Chemical splash goggles.

#### **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

#### **Other skin and body protection**

Provide eyewash station and safety shower.

#### **Hygiene measures**

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

#### **Respiratory protection**

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

## Chromium Oxide Green

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Dusty powder.
<b>Color</b>	Green.
<b>Odor</b>	Odorless.
<b>pH</b>	pH (concentrated solution): pH (diluted solution): 5 - 9 @ 10%
<b>Melting point</b>	2266°C
<b>Initial boiling point and range</b>	Not relevant.
<b>Relative density</b>	5.1 @ kg/m <sup>3</sup> °C
<b>Bulk density</b>	600-1500 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Insoluble @ °C Insoluble in water.
<b>Other information</b>	No information required.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of None .

### 10. Stability and reactivity

<b>Reactivity</b>	The following materials may react with the product: molten alkali at high temperature chlorine trifluoride producing flame glycerol - may produce an explosion
<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
<b>Possibility of hazardous reactions</b>	Will not polymerize.
<b>Conditions to avoid</b>	Water, moisture.
<b>Materials to avoid</b>	Chomic oxide may react with molten alkali at high temperatures under oxidizing conditions. May react with lithium, nitroalkanes, dirubidium acetylide, oxygen difluoride and other strong oxidizers. Reaction with chlorine trifluoride produces flame. Contact with glycerol and chromic oxide my produce an explosion.
<b>Hazardous decomposition products</b>	A small amount (<0.1% as Cr) of reversion to hexavalent chromium may occur if the dry chromium (III) oxide powder is exposed to elevated temperatures.

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	From literature surveys undertaken for Chromium (III) oxide in powder form: LD50: >5000 mg/kg (oral rat). Chromic oxide fed to rats in dosages up to 5% for 2 years produced no treatment related effects.[Ivankovic S. & Preussman R., Food Cosmet. Toxicol. 13, 347-351 (1975).] Dermal: non-irritant Rabbit skin (24 h)
<b>Other health effects</b>	IARC Not Listed. NTP Not Listed. OSHA Not Regulated. This product is a trivalent chromium compound that contains less than 100 ppm hexavalent chromium. Trivalent chromium is not specifically listed as a carcinogen by NTP, IARC or ACGIH.
<b>Acute toxicity - oral</b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0

## Chromium Oxide Green

### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)** 5.41

<b>General information</b>	No specific health hazards known.
<b>Inhalation</b>	Dust may irritate the respiratory system. Symptoms following overexposure may include the following: Coughing. Prolonged inhalation may be harmful.
<b>Ingestion</b>	No harmful effects expected from quantities likely to be ingested by accident. Possible nausea or diarrhea if large amounts ingested.
<b>Skin Contact</b>	No specific health hazards known. Substance may cause slight skin irritation.
<b>Eye contact</b>	Dust in the eyes will cause irritation. May cause slight irritation.
<b>Route of entry</b>	Inhalation Skin absorption Ingestion. Skin and/or eye contact

## 12. Ecological Information

**Ecotoxicity** From literature surveys undertaken for Chromium (III) oxide in powder form:- Aquatic toxicity (fish) = Zebra barb.: Lc0 (96 hours): >10000 mg/l Bacterial toxicity: harmless against Escherichia coli at 1000 mg/l and Pseudomonas fluorescens at >10000 mg/l. Water hazard classification: according to the present state of knowledge, this pigment slurry is not hazardous to water. Biological or Chemical Oxygen Demand: Slight.

### Toxicity

**Toxicity** Not considered toxic to fish.

### Persistence and degradability

**Persistence and degradability** The product contains only inorganic substances which are not biodegradable.

### Bioaccumulative potential

**Bio-Accumulative Potential** Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

### Mobility in soil

**Mobility** The product is insoluble in water.

### Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### Other adverse effects

**Other adverse effects** None known.

## 13. Disposal considerations

### Waste treatment methods

<b>General information</b>	Waste to be treated as controlled waste. Disposal in accordance with federal, state and local regulations.
<b>Disposal methods</b>	Reuse or recycle products wherever possible. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## Chromium Oxide Green

**Waste class**

Product does not exceed the RCRA extraction procedure limit of 5 PPM for total soluble chromium as shipped from the manufacturer. This product when discarded as sold is not an RCRA hazardous waste. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40CFR261.20-24). Chemical processing of this product (particularly at elevated temperatures) can cause chemical reactions which produce substances which will exceed the RCRA limits. Wastes from this product should be tested to determine the proper waste classification. Incineration is not recommended as some trivalent chromium may convert to the hexavalent form.

**14. Transport information****General**

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

**UN Number**

Not applicable.

**UN proper shipping name**

Not applicable.

**Transport hazard class(es)**

Not applicable.

**DOT hazard class**

Not regulated.

**DOT hazard label**

No DOT label requirement noted

**Packing group**

Not applicable.

**Environmental hazards****Environmentally Hazardous Substance**

No.

**Special precautions for user**

Not applicable.

Transport in bulk according to  
Annex II of MARPOL 73/78  
and the IBC Code

**15. Regulatory information****US Federal Regulations****SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

None of the ingredients are listed or exempt.

**CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

None of the ingredients are listed or exempt.

**SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

None of the ingredients are listed or exempt.

**SARA 313 Emission Reporting**

## Chromium Oxide Green

### CHROMIUM (III) OXIDE

0.10 %

#### CAA Accidental Release Prevention

None of the ingredients are listed or exempt.

#### US State Regulations

**State Regulations Comments** California Prop 65 Warning: This product contains chemicals, as trace impurities and not intentionally added, known to the state of California to cause cancer (C) and birth defects or other reproductive (R) harm.

#### Massachusetts "Right To Know" List

##### CHROMIUM (III) OXIDE

Yes.

#### Rhode Island "Right To Know" List

##### CHROMIUM (III) OXIDE

Not listed.

#### Minnesota "Right To Know" List

##### CHROMIUM (III) OXIDE

Not listed.

#### New Jersey "Right To Know" List

##### CHROMIUM (III) OXIDE

Yes.

#### Pennsylvania "Right To Know" List

##### CHROMIUM (III) OXIDE

Not listed.

#### Inventories

##### EU - EINECS/ELINCS

EINECS

All the ingredients are listed or exempt.

##### Canada - DSL/NDL

DSL

All the ingredients are listed or exempt.

##### US - TSCA

All the ingredients are listed or exempt.

##### US - TSCA 12(b) Export Notification

No.

##### Australia - AICS

All the ingredients are listed or exempt.

##### Japan - MITI

All the ingredients are listed or exempt.

##### Korea - KECI

All the ingredients are listed or exempt.

## Chromium Oxide Green

**China - IECSC**

All the ingredients are listed or exempt.

**Philippines - PICCS**

All the ingredients are listed or exempt.

**New Zealand - NZIOC**

All the ingredients are listed or exempt.

**16. Other information**

<b>Revision date</b>	6/9/2015
<b>Revision</b>	14
<b>Supersedes date</b>	5/28/2015
<b>SDS No.</b>	17869
<b>SDS status</b>	Approved.

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