# **Material Safety Data Sheet**

According to 91/155/EEC and ISO 11014-1

Printing date: December 30, 2009 Replaced issue dd.:---

# 1. Identification of substance and of the company

Trade Name: Chromic Oxide Green

Zhejiang Deqing Haikang Pigment Co., Ltd.

Add: No.139-145, Zhongxing North Road, Deqing County, Zhejiang 313200 China

Tel: 00 86 572 808 6596 Fax: 00 86 572 808 6597

# 2. Composition/Data on components

Synonyms: Chromium (III) Oxide; Chromic Oxide; Chrome Oxide Green

CAS No.: 1308-38-9 Molecular Weight: 151.99 Chemical Formula: Cr2O3 Product Codes: 1616

## 3. Hazards identification

## **Emergency Overview**

# WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

**J.T. Baker SAF-T-DATA(tm)** Ratings (Provided here for your convenience)

Health Rating: 2 - Moderate Flammability Rating: 0 - None Reactivity Rating: 1 - Slight Contact Rating: 2 - Moderate

Lab Protective Equip: GOGGLES; LAB COAT; VENT HOOD; PROPER GLOVES

Storage Color Code: Blue (Health)

# **Potential Health Effects**

**Inhalation:** Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. **Ingestion:** Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

**Skin Contact:** Causes irritation to skin. Symptoms include redness, itching, and pain.

Eye Contact: Causes irritation, redness, and pain.

Chronic Exposure: Prolonged or repeated skin contact may produce severe irritation or dermatitis.

**Aggravation of Pre-existing Conditions:** No information found.

# 4. First Aid measures

#### **Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### **Ingestion:**

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

#### Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

#### **Eve Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

# 5. Fire fighting measures

Fire: Not considered to be a fire hazard.

**Explosion:** Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

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# 6. Accidental release

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Pick up and place in a suitable container for reclamation or disposal in a method that does not generate dust. Do not sweep. Damp mop any residue

# 7. Handling and storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Do not store on wooden floors. 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.

#### 8. Exposure controls/personal protection

#### **Airborne Exposure Limits:**

-OSHA Permissible Exposure Limit (PEL):

for Cr(III) compounds = 0.5mg/m3 (TWA)

-ACGIH Threshold Limit Value (TLV):

for Cr(III) compounds = 0.5 mg/m3 (TWA), A4 - Not classifiable as a human carcinogen

# **Ventilation System:**

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. 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 Approved):**

If the exposure limit is exceeded and engineering controls are not 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 quick-drench facilities in work area.

# 9. Physical and chemical properties

# **Appearance:**

Light to dark green Crystalline solid.

Odor: Odorless.

**Solubility:** Negligible (< 0.1%)

**Specific Gravity:**5.10 **pH:** No information found.

% Volatiles by volume @ 21C (70F): 0

**Boiling Point:** 4000C (7232F) **Melting Point:** 2435C (4415F) **Vapor Density (Air=1):** 

Not applicable.

Vapor Pressure (mm Hg):

Not applicable.

**Evaporation Rate (BuAc=1):** 

No information found.

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10. Stability and reactivity			
Stability:			
Stable under ordinary conditions of use and storage.			
Hazardous Decomposition Products:			
No information found.			
Hazardous Polymerization:			
Will not occur.			
<b>Incompatibilities:</b> Lithium, glycerol.			
Conditions to Avoid:			
Dusting.			
11. <u>Toxicological information</u>			
Investigated as a tumorigen, mutagen.			
\Cancer Lists\			
(Carreer Elists)		Carcinogen	
Ingredient		Anticipated	IARC Category
Characiana (III) Oni da (1200-20-0)	NI -	NI -	2
Chromium (III) Oxide (1308-38-9)	No	No	3
12. Ecological information			
<del></del>			
Environmental Fate:	-		
When released into the soil, this material	is not exp	ected to biodeg	rade. This material is not expected to
significantly bioaccumulate.  Environmental Toxicity:			
No information found.			
13. Disposal considerations			
Whatever cannot be saved for recovery or			
disposal facility. Processing, use or contam			
State and local disposal regulations may unused contents in accordance with federal,			
14. Transport information	state and lo	car requirements.	
<u> </u>			
Not regulated.			
15. Regulatory information			
regulatory information			
\Chemical Inventory Status - Part 1\-			
Ingredient		TSCA EC	Japan Australia
Chromium (III) Oxide (1308-38-9)		Yes Yes	Yes Yes
Chronillum (m) Oxide (1308-38-9)		168 168	ies ies
\Chemical Inventory Status - Part 2\			
, ,			Canada
Ingredient		Korea DSL	NDSL Phil.
Chromium (III) Oxide (1308-38-9)		Vac Vac	No Yes
Chronillum (m) Oxide (1308-38-9)		168 168	NO TES
\Federal, State & International Regulations - Part 1\			
			SARA 313
Ingredient	RQ	=	ist Chemical Catg.
Chromium (III) Oxide (1308-38-9)	No		No Chromium com

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-----\Federal, State & International Regulations - Part 2\-----

-RCRA- -TSCA-CERCLA 261.33 8(d)

Chromium (III) Oxide (1308-38-9) No No No No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No

Reactivity: No (Pure / Solid)

# **Australian Hazchem Code:**

None allocated.

#### **Poison Schedule:**

None allocated.

# WHMIS:

Ingredient

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# 16. Further information:

#### **Label Hazard Warning:**

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

#### **Label Precautions:**

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

# **Label First Aid:**

If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, wipe off excess material from skin then immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

## **Product Use:**

Laboratory Reagent.

#### **Revision Information:**

No Changes.