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## MATERIAL SAFETY DATA SHEET

Issue No. 5  
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### 1. IDENTIFICATION OF SUBSTANCE AND SUPPLIER

Name: **A307 Chromium Oxide**

Chemical Characterisation: Pigment Green 17 - C.I. 77288

Function: Cosmetic colour

Supplier: The Soap Kitchen

### 2. HAZARDS IDENTIFICATION

This pigment is largely inert and presents no hazard to the ecology. It should be treated as a nuisance dust.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Contains: Cr<sub>2</sub>O<sub>3</sub>

FDA Description: Chromium oxide green

Japan Reference: Chromium oxide

EU Number:

EU Reference: Annex IV Pt 1

Hazardous components:

R

EINECS:

215-160-9

Dichromium trioxide

CAS Number:

1308-38-9

### 4. FIRST AID MEASURES

**Eye Contact** : Rinse with copious amounts of water. Mechanical irritation may occur. Consult doctor if symptoms persist.

**Inhalation** : Remove to fresh air. Slight mechanical irritation of upper respiratory tract possible.

**Skin Contact** : Wash off with mild soap and warm water.

**Ingestion** : In case of excessive ingestion, give large quantities of water. Take medical advice.

### 5. FIRE FIGHTING MEASURES

Extinguishing Media:



water mist



CO<sub>2</sub>



foam



dry powder

(✓ recommended      × must not be used)

**Special Exposure Hazards**: No special hazards.

**Special Fire Fighting Precautions**: No special precautions.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal Protection**: See section 8. Control dust. Provide sufficient ventilation.

**Disposal Considerations**: See sections 8/13.

**Measures for Containing Spillage**: Damp down, or cover with inert material.

**Measures for Cleaning up**: Sweep up or vacuum up avoiding formation of dust clouds.

**Environmental Precautions**: Advise local river or water authority if spillage has entered water course or sewer.

### 7. HANDLING AND STORAGE

Store at room temperature (15-25°C recommended) in original resealed containers and protected from direct sunlight and moisture.

Use LEV throughout handling processes.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

When handling dry powder, local exhaust ventilation (LEV) is essential to minimise worker exposure. UK limits (long term total dust and respirable dust) on exposure are published annually in Guidance Note EH40, HSE.

Dust: Long term total dust: 10/8 hr TWA

Respirable dust: 4/8 hr TWA

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**Respiratory Protection:** FFPI Nuisance dust filters

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> goggles                                    | <input checked="" type="checkbox"/> aprons, boots |
| <input checked="" type="checkbox"/> nitrile gloves (2 mm)<br>(Breakthrough NK) | <input type="checkbox"/>                          |

## 9. PHYSICAL & CHEMICAL PROPERTIES

**Melting / Softening Point:** > 1000°C  
**Boiling Point:**  
**Flash Point:**  
**Density:** 5.2 g.cm<sup>-3</sup>  
**Bulk Density:** ~800 kg.m<sup>-3</sup>  
**Solubility in Water:** Insoluble.  
**Solubility in Oil:** Insoluble.  
**pH:** 5 - 6  
**Partition Coefficient (n-octanol-water):**  
**Flammability:**  
**Explosive Properties:**  
**Oxidising Properties:**  
**Evaporation Rate:**  
**Appearance:** Green powder.  
**Odour:** None.

## 10. STABILITY AND REACTIVITY

**Stability:** Very stable.  
**Conditions to avoid:** Heat under alkaline conditions.  
**Materials to avoid:** None.  
**Hazardous Decomposition Products:** None.  
**Hazardous Exothermic Reaction:**

## 11. TOXICOLOGY

**General Comments:**  
**Skin Contact:** Non irritant (24 h rabbit).  
**Eye Contact:** Moderate irritant (mechanical action).  
**Ingestion:** LD<sub>50</sub> Rat > 10000 mg/kg  
**Inhalation:**  
**Any Further Data:** Micronucleus test : -ve (mouse).

## 12. ECOLOGY

**General Comments:** Trivalent chromium is a widely occurring natural substance (it is common to find up to 200 mg/kg in soil).  
**Bacteriological Toxicity:** No harmful effect on Escherichia coli : 1000 mg/l. No harmful effect on Pseudomonas fluorescens : 10000mg/l.  
**Fish Toxicity:** Zebra barbel (Brachydanio rerio) LC<sub>50</sub> > 10000 mg/l (96 h).  
**Biodegradability and Persistence:** Not biodegradable.  
**Bioaccumulative Potential:**  
**Mobility:** Sediments out in waters.  
**Other Effects:**

## 13. DISPOSAL

National or regional laws will determine the appropriate method of disposal. It is recommended that you refer to your local authority.

## 14. TRANSPORT INFORMATION

<b>UN Number:</b>	<b>RID (rail):</b>
<b>IMDG (sea):</b>	<b>ICAO/IATA (air):</b>
<b>ADR (road):</b>	<b>Packaging Group:</b>
<b>General:</b> Not considered hazardous for transport purposes. Keep separate from food stuffs.	

## 15. REGULATORY INFORMATION

**Labelling Information:**  
**World Regulations:**

## 16. OTHER INFORMATION

**R-phrases:**  
**Non Statutory Recommendations:**  
**Source Information:**  
**Notes:** NA (not applicable), NK (not known), NR (not relevant). \* (revised since last issue).