

MATERIAL SAFETY DATA SHEET.

1. IDENTIFICATION OF SUBSTANCE/PREPARATION & COMPANY.

PRODUCT NAME: CHROMIUM OXIDE GREEN (HYDRATED)

CHEMICAL CHARACTERISATION: Pigment Green 17 – C.I. 77289. Anhydrous chromium oxide.

SUPPLIER: The Soap Kitchen, 11a South Street, Torrington, Devon, EX38 8AA.

Emergency Tel No: 01805 622944 Emergency Contact: Mr. Richard Phillips.

2. COMPOSITION / INFORMATION ON INGREDIENTS.

CONTAINS: Hydrated Chromium Oxide

H-No:

CAS No: 12001-99-9

EU Ref: Annex IV Part 1

FEMA:

FDA: Chromium hydroxide green

IFRA:

Application:

Japan: Htdrated Chromium oxide

EINECS: 215-160-9

RTECS:

INCI name:CI 77289

FCCIV:

3. HAZARDS IDENTIFICATION:

Not classified as dangerous and presents no environmental hazard. Should be treated as a nuisance dust.

4. FIRST-AID MEASURES:

INHALATION: Remove from exposure site to fresh air. Keep at rest. Obtain medical attention.

EYE CONTACT: Rinse immediately with plenty of water for at least 15 mins, holding eyelids open. Contact a doctor if symptoms persist.

SKIN CONTACT: Remove contaminated clothes. Wash thoroughly with soap & water, flush with plenty of water. If irritation persists, seek medical advice.

INGESTION: Rinse mouth and then drink plenty of water. Seek medical advice if large amounts are involved, drink copious amounts of water to induce vomiting.

OTHER: When assessing action take Risk & Safety Phrases into account (Section 15)

5. FIRE FIGHTING MEASURES.

EXTINGUISHING MEDIA RECOMMENDED: Use Water Mist, CO₂, Dry Powder or Foam type Extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

SPECIAL MEASURES: Avoid inhalation. Keep away from sources of ignition. Do not smoke. Wear positive pressure self-contained breathing apparatus & protective clothing.

EXTINGUISHING PROCEDURES: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. ACCIDENTAL RELEASE MEASURES.

PERSONAL PRECAUTIONS: Avoid inhalation & direct contact with skin & eyes. Use individual protective equipment (safety glasses, waterproof-boots, suitable protective clothing) in case of major spillages.

ENVIRONMENT PRECAUTIONS: Keep away from drains, soils, surface & groundwaters.

CLEANING UP METHODS FOR SPILLAGES: Remove all potential ignition sources. Vacuum up and wash spill site. Observe state, federal & local disposal regulations.

7. HANDLING & STORAGE.

PRECAUTIONS IN HANDLING: Apply good manufacturing practice & industrial hygiene practices, ensuring proper ventilation. Observe good personal hygiene, and do not eat, drink or smoke whilst handling.

STORAGE CONDITIONS: Store in tightly closed original container, in a cool, dry & ventilated area away from heat sources & protected from light. Keep air contact to a minimum.

FIRE PROTECTION: Keep away from ignition sources & naked flames. Take precautions to avoid static discharges in working area.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION.

RESPIRATORY PROTECTION: Avoid breathing dust. Apply local ventilation where possible.

VENTILATION: Ensure good ventilation of working area.

HAND PROTECTION: Avoid all skin contact. Use chemically resistant gloves if required.

EYE PROTECTION: Use safety glasses.

WORK/HYGIENE PRACTICES: Dry, fine powders can remove the skin's natural oils, leaving it cracked and dry and open to infection. Wash hands with soap & water after handling. Use skin moisturisers.

9. PHYSICAL & CHEMICAL PROPERTIES.

PHYSICAL FORM:	Green powder
ODOUR:	None
FLASH-POINT °C:	N/A
DENSITY :	5.0g.cm ³
BULK DENSITY :	500Kg.m ³
SOLUBILITY IN WATER :	Insoluble
PH (AT 50g.l ⁻¹ WATER):	
THERMAL DECOMPOSITION :	N/A

10. STABILITY & REACTIVITY.

REACTIVITY: Very stable

DECOMPOSITION: None

11. TOXICOLOGICAL INFORMATION.

After skin contact : Irritation not expected

After eye contact : Irritation possible through mechanical action of dust particles.

After inhalation : May cause discomfort to respiratory tract

After ingestion : LD₅₀Rat > 10000mg/kg

12. ECOLOGICAL INFORMATION.

BIODEGRADABILITY: Separated by filtration and/or settlement.

BACTERIAL TOXICITY : No harmful effect on Escherichia coli : 1000mg/l. No harmful effect on Pseudomonas fluorescens : 10000mg/l

FISH TOXICITY : Zebra barbell (Brachydanio nerio) LC₅₀>10000mg/l (96 h)

PRECAUTIONS: Prevent surface contamination of soil, ground & surface water. Do not discharge into natural waters without pretreatment.

GENERAL COMMENTS : Trivalent chromium is a widely occurring natural substance, commonly up to 200mg/kg in soil

13. DISPOSAL CONSIDERATIONS.

Avoid disposing to drainage systems and into the environment. Seek expert advice.

14. TRANSPORT REGULATIONS.

Not classified as a hazardous cargo under current transport regulations. Use an approved carrier

Road (ADR/RID):

AIR (IATA):

SEA (IMDG):

UN :

15. REGULATORY INFORMATION. According to Directive 88/379/EEC

HAZARDS:

SYMBOLS:

RISK PHRASES:

SAFETY PHRASES: S22, do not breathe dust

S24/25, avoid contact with skin

S26, in case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S36,37,39, wear suitable protective clothing, gloves, eye/face protection.

Dust:

Long term total dust : 0.5mg.m⁻³ / 8hr TWA

Respirable dust : /8hr TWA

16. OTHER INFORMATION.

Conc. % Limits:

PACKAGING:

Type	Suitability
Glass	Yes
Lacquer lined steel/tin	Yes
Aluminium	Yes
HPPE	Yes
F/HDPE	Yes
Other plastic	Yes

SHELF-LIFE

Min 12 months when stored within advised conditions.

Q.C. REQUIREMENTS.

In-line with general product specification. Always satisfy suitability for specific application.

Retest after 6 months.

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