

C.I. 77288

ANALYSIS

	<u>RESULT</u>	<u>SPECIFICATION</u>
Cr ₂ O ₃	> 95 %	95 % min
Chromates (soluble in 2 % NaOH, Cr ₂ O ₃)	< 0.075 %	0.075 % max
Lead (Pb)	< 20 ppm	20 ppm max
Arsenic (As)	< 3 ppm	3 ppm max
Mercury (Hg)	< 1 ppm	1 ppm max

COMMENTS

Material has been subjected to gamma irradiation treatment at a dosage rate of 10 kGy.

DATE OF MANUFACTURE: January 2010

This document is computer generated and carries no signature.

COMPOSITION / INFORMATION ON INGREDIENTS

Contains : Cr₂O₃

CAS Number : 1308-38-9

FDA Description : Chromium oxide green

Japan Reference : Chromium oxide

Common Name : Anhydrous chrome green

EU Number :

EU Reference : Annex IV Pt 1

EINECS :

3. HAZARDS IDENTIFICATION

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

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 CO₂ foam dry powder

Special Exposure Hazards : No special hazards.

Special Fire Fighting Precautions : No special fire fighting precautions.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection : See section 8.

Disposal Considerations : See section 8.

Measures for Containing Spillage :

Measures for Cleaning up Spillage : Sweep or vacuum up avoiding generation of dust.

Any Environmental Precautions :

7. HANDLING AND STORAGE

Handling : See section 8.

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

Incompatible Materials : None.

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, Health & Safety Executive.

Other Protective Measures :

 self contained breathing apparatus plastic gloves, overalls goggles

Dry, fine powders can remove the skin's natural oils, leaving it cracked and dry and open to infection. Workers should be encouraged to use skin moisturisers.

Continued page 2

9. **PHYSICAL & CHEMICAL PROPERTIES**

Melting / Softening Point : > 1000°C
Density : 5.2 g.cm⁻³
Bulk Density : approx. 800 kg.m⁻³
Solubility in Water : Insoluble
pH (at 50 g.l⁻¹ water) : 5.5
Odour : None
Physical Form : Powder
Flash Point : Not applicable
Thermal Decomposition : Not applicable
Auto Ignition : Not applicable

10. **STABILITY AND REACTIVITY**

Stability : Very stable.
Substances to be avoided : None
Hazardous Decomposition Products : None
Hazardous Exothermic Reaction : None

11. **TOXICOLOGICAL INFORMATION**

General Comments :
After Skin Contact : Non irritant (24 h rabbit).
After Eye Contact : Moderate irritant (mechanical action).
After Ingestion : LD₅₀ Rat > 10000 mg/kg
After Inhalation :
Further Data : Micronucleus test : -ve (mouse).

12. **ECOLOGICAL INFORMATION**

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 : 10000 mg/l.
Fish Toxicity : Zebra barbel (Brachydanio nerio) LC₅₀ > 10000 mg/l (96 h)
Biodegradability : Separated by filtration and/or sedimentation.

13. **DISPOSAL CONSIDERATIONS**

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Empty containers should be cleaned out before disposal or recycling.

14. **TRANSPORT INFORMATION** Non dangerous cargo. Keep separate from foodstuffs.

UN Number :
IMO :
IATA :

IMDG Class :
Packaging Group :
ADR (Road)/RID :

15. **REGULATORY INFORMATION**

EEC Directives :

Symbol :
R-phrases :
S-phrases :

Dust : Long term total dust : 10 mg.m⁻³ - 8 hr TWA
Respirable dust : 5 mg.m⁻³ - 8 hr TWA

World :

16. **OTHER INFORMATION**

Source Information :