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SAFETY DATA SHEET

3501	CHROME GREEN SUNSHINE ONGLAZE COLOUR
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1. Identification of substance/preparation and of the company undertaking	
Trade Name:	Decorating colour
Use of the substance / preparation:	Ceramic coating suited for firing, for glass and ceramics.

2. Composition /information on ingredients				
Chemical Nature:	Contains metal oxide/hydroxide and glass/ frit.			
Information on Ingredients / Hazardous components				
• Lead oxide in glasses/ pigments				
CAS – No	Symbol(s)	Concentration	EC – No.	R phrases
1317-36-8	T	30%-50%	215-267-0	R61, R62, R20/22, R33
• Cadmium oxide in glasses/ pigments				
CAS – No	Symbol(s)	Concentration	EC – No,	R phrases
1306-19-0	Xn	1%-3%	215-146-2	R20/21/22
• Zirconium Dioxide				
CAS – No	Symbol(s)	Concentration	EC – No,	R phrases
1314-23-4	-	1%-3%	215-227-2	-
See Chapter 16 for text of risk phrases.				

3. Hazards Identification	
May cause harm to the unborn child.	
Also harmful by inhalation, in contact with skin and if swallowed.	
Danger of cumulative effects.	
Possible risk of impaired fertility.	



4. First Aid Measures	
General advice	Remove contaminated or saturated clothing. Bring affected person out of danger area. Place person on side in stable position if unconscious. Employ mouth – to – mouth resuscitation if breathing ceases.
Inhalation	Take affected persons out into the fresh air. In case of discomfort consult doctor immediately.
Skin contact	Wash off immediately with soap and plenty of water. Remove contaminated or saturated clothing.
Eye Contact	With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes.
Ingestion	Make affected person vomit but only if fully conscious. Have patient rinse out mouth with water. Have patient drink plenty of water in small sips. Call a physician immediately.
Notes to physician	No own experience available.

5. Fire Fighting Hazards	
Suitable extinguishing media	The product itself does not burn.
Extinguishing media which must not be used for safety reasons	None known
Specific hazards during fire fighting	No information available
Special protective equipment for fire-fighters	Standard procedure for chemical fires.
Further Information	Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.

6. Accidental Release Measure	
Personal Precautions	Evacuate personnel to safe areas. Ensure adequate ventilation. Wear personal protective equipment (See section 8) Avoid dust formation.
Environmental precautions	Prevent penetration into soil, stretches of water and drainage systems.
Methods for cleaning up	Pick up mechanically and collect in a suitable container. Avoid formation of dust.
Additional advice	Dispose of contaminated material as waste in accordance with Section 13.



7. Handling & Storage	
Handling	
Safe Handling Advice	<p>The product should only be handled by trained personnel.</p> <p>Store substances and preparations classified as T or T+ under lock and key or only allow access to technical experts or persons under their authority.</p> <p>The product contains substances, which may be dangerous to reproduction, category 3. Comply with employment limitations for youths, pregnant women and nursing mothers.</p> <p>The product contains substances, which are dangerous to reproduction. Comply with employment limitations for youths, pregnant women and nursing mothers.</p> <p>Avoid production of dust. Do not breathe dust.</p>
Advice on protection against fire and explosion	No data available.
Storage	
Requirements for storage areas and containers	<p>Keep containers tightly closed in a dry, cool and well-ventilated place.</p> <p>No special storage conditions required.</p>
Further Information	Product is water-pollutive. Observe the national and local regulations concerning handling and storage.
Advice on common storage	<p>Keep away from food, drink and animal feeding stuffs.</p> <p>Keep away from tobacco products.</p>
German storage class	6.1B (Classification by producer in accordance with VCI scheme).



8. Exposure Control/Personal Protection			
Components with workplace control parameters			
• Lead oxide in glasses/ pigments			
CAS – No	Control Parameters	EC- No	Related to: as Pb
1317-36-8	0.10 mg/ m ³	215-267-0	MAK
• Cadmium oxide in glasses/ pigments			
CAS – No.	Control Parameters	EC- No	Related to: as Cd
1306-19-0	0.015 mg/ m ³ (total dust)	215-146-2	TRK
• Zirconium Dioxide			
CAS – No.	Control Parameters	EC- No	Related to: as Zr
1314-23-4	2.50 mg/ m ³ (total dust)	215-227-2	MAK
Engineering measures		If possible, use material transfer/ filling, metering and blending plants that are closed. Eventual aspiration in case of dusts. Technical protection measures have always priority over personal protection equipment.	
Occupational exposure controls			
Personal protective equipment			
Respiratory protection		If workplace exposure limit is exceeded apply Respirator with P3 particle filter.	
Hand protection		Wear protective gloves made of the following materials: nitrile rubber.	
Eye protection		Wear basket-shaped glasses or safety goggles with side shields.	
Skin and body protection		Safety shoes	
Hygiene measures		When using do not eat or drink Wash hands before breaks and immediately after handling the product. Keep working clothes separately. Do not breathe dust or spray mist. Avoid contact with skin, eyes and clothing. When using do not smoke.	
Protective measures		Handle in accordance with good industrial hygiene and safety practice.	
Environmental exposure controls		No data available.	

9. Physical & Chemical Properties	
Appearance	
Form	Powder
Colour	Green
Odour	Odourless
Safety data	
Physical state	Solid



10. Stability & Reactivity	
Conditions to avoid	No data available
Materials to avoid	No data available
Hazardous decomposition products	No data available

11. Toxicological Information	
Acute toxicity	Harmful if swallowed Harmful by inhalation Harmful in contact with skin
Chronic toxicity/ Subacute toxicity	Possible risk of impaired fertility May cause harm to the unborn child
Skin Irritation	Powder can cause localised skin irritation in folds of the skin or under tight clothing.
Eye Irritation	No data available
Sensitization	No data available
No results of animal experiments with the product available. (If applicable, information referring to individual components of the product is given below).	
Acute Oral Toxicity	
Frits, chemicals (WGK 2)	LD50 rat: > 2.000,00 mg/kg

12. Ecological Information	
Persistence and degradability	
Biodegradability	The methods for determining biodegradability are not applicable to inorganic substances.
Physico-chemical removability	No data available
Behaviour in environmental compartments	
Mobility	No data available
Ecotoxicity	
Specific information for this product is not available (if applicable, information for components is given below).	
Toxicity to fish	
Frits, chemicals (WGK 2)	LC50 Fish: > 1.000,000 mg/l / 96h
Toxicity to daphnia	
Frits, chemicals (WGK 2)	EC50 Daphnia: > 100,00 mg/l / 48h
Toxicity to algae	
Frits, chemicals (WGK 2)	IC50 algae: > 1.000,00 mg/l / 72h
Further Information on Ecology	
No data available	



13. Disposal Considerations	
Product	Dispose of as special waste in compliance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. In agreement with the waste code must be determined regional waste disposal authority or company.
Uncleaned packaging	If there is product residue in the emptied container, follow directions for handling on the container's label. Dispose of as unused product.

14. Transport Information	
Further Information	Not classified as dangerous on the meaning of transport regulations.

15. Regulatory Information		
Labelling according to EEC Directive		
Statutory basis/ list	1994/45/EC	
Hazard-defining components		
	Lead oxide in glasses/ pigments Cadmium oxide in glasses/ pigments	
R phrases	R61	May cause harm to the unborn child
	R20/21/22	Also harmful by inhalation, in contact with skin and if swallowed.
	R33	Danger of cumulative effects.
	R62	Possible risk of impaired fertility.
S phrases	S53	Avoid exposure – obtain special instructions before use.
	S22	Do not breathe dust.
	S35	This material and its container must be disposed of in a safe way.
	S36/37	Wear suitable protective clothing and gloves.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
Exceptional labelling of special preparation		Restricted to professional users.

16. Other Information	
Risk phrase (R phrase) texts	
• Lead oxide in glasses/ pigments	
R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility
R20/22	Also harmful by inhalation and if swallowed.
R33	Danger of cumulative affects
• Cadmium oxide in glasses/ pigments	
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.