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SAFETY DATA SHEET

3513	TURQUOISE SUNSHINE ONLAZE COLOUR
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1. Identification of substance/preparation and of the company undertaking

Trade Name:	Turquoise Sunshine Onglaze Colour
Chemical Name:	-

2. Composition /information on ingredients

Composition:	CAS – No.	Common Name
	68187-49-5	Cobalt chromite green spinel
	65997-18-4	Frits, chemicals

Hazardous Ingredients (Theoretically Calculated):			
Weight (%)	CAS – No.	Common Name	
		Symbol	R-Sentence
15.0 – 5.0	7439-92-1	Lead in Compounds and Frits	
		T	61-62-20/22-33
1.0-5.0	7440-43-9	Cadmium (compounds)	
		Xn	20/21/22

3. Hazards Identification

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

4. First Aid Measures

General Remarks:	Bring affected persons out of danger area. Keep warm and in stable position. Place person on side in stable position if unconscious. Keep respiratory tract clear. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Inhalation:	Take affected persons out into the fresh air. In case of discomfort consult doctor immediately.
Skin Contact:	Upon skin contact, wash with water.
Eye Contact:	Rinse thoroughly immediately with plenty of water for at least 5 minutes keeping eyelid open.



	Consult an ophthalmologist if the irritation persists.
Ingestion:	Have patient drink plenty of water in small sips. Make affected person vomit but only if he is fully conscious.
Instructions for physician:	
Inhalation:	After inhaling relevant quantities lung lavage. Control of load by measuring the urine output of the metal. If necessary, treat with complexing agents.
Contact with skin:	If necessary, symptomatic treatment.
Contact with eyes:	If necessary, symptomatic treatment.
Swallowing:	Immediate measures (also by laymen) – Administer a drinking glass of saturated sodium sulphate solution. Physician: Remove poisonous substances from the gastro- intestinal tract. Administer sodium sulphate solution if this has not yet been done: Control of load by measuring the urine output of the metals. If necessary, treat with complexing agents.

5. Fire Fighting Hazards

Suitable Extinguishing Media:	Usual measures for chemical fires.
Special Exposure hazards arising from the substances or preparation itself, combustion products, resulting gases:	Usual measures for chemical fires.
Special protective equipment for Fire-fighters:	Usual measures for chemical fires.

6. Accidental Release Measure

Personal Precautions:	Keep persons at a distance and stay on the weather side. Wear personal protective equipment.
Environmental Precautions:	Dispose of waste in accordance with the legal regulations issued by the appropriate local and national authorities. Prevent penetration into soil, stretches of water and drainage systems.
Methods of cleaning up:	Absorb mechanically and collect in a suitable container.
Further Information:	Avoid formation of dust. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

7. Handling & Storage

Handling:	The product should only be handled by trained personnel. Avoid formation of dust; suction of objects is necessary. The product contains
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	<p>substances, which may be dangerous to reproduction. Note employment restrictions for minors and pregnant and lactating women. Avoid exposure – obtain special instructions before use.</p> <p>Specific information referring to lead: The product should only be handled by trained personnel. Note employment restrictions for minors and for women of child-bearing age.</p>
Storage:	<p>Keep container dry and tightly sealed – even empties. Store under lock and key or only allow access to technical experts or persons under their authority. Product is slightly water- pollutive. Observe the national and local regulations concerning handling and storage.</p>

8. Exposure Control/Personal Protection		
Additional Instructions for technical installation:		
		When processing the product, the air in the workplace should be regularly monitored and employees exposed to the product should be given a regular medical check-up.
Specific Information referring to lead:		In accordance with current information a risk of embryonic damage is likely in pregnant women. Damage cannot be excluded even when the special limit values of TLV tolerance value are observed.
Values of maximum admissible concentration (MAK):		
ml / m ³	0.1000	mg / m ³ referring to lead in compounds and frits (G)
ml / m ³	0.1000	mg / m ³ referring to cobalt (G).
ml / m ³	2.0000	mg / m ³ referring to tin (compounds, inorganic) (G).
ml / m ³	5.0000	mg / m ³ referring to zirconium (compounds) (G).
Values of maximum admissible concentration (TRK):		
ml / m ³	0.0150	mg / m ³ referring to cadmium (compounds) (G).
Personal Protection:		
General Protection:		Wash face / hands before break and end of work. Avoid exposure – obtain special instructions before use.
Respiratory Protection:		If maximum admissible concentration value at the workplace is exceeded, apply ref. To BS 2091 Dust: B.
Eye Protection:		The usual precautionary measures for dealing with chemicals should be observed.



Skin Protection:	No particular protective equipment required, if no further advice is following.
Hand Protection:	No particular protective equipment required, if no further advice is following.

9. Physical & Chemical Properties	
Physical State:	Powder
Colour:	Blue
Odour:	Not Applicable

10. Stability & Reactivity	
Conditions to avoid:	No dangerous reactions are known to occur with correct handling and storage.
Materials to avoid:	(If applicable, information referring to individual components of the product is given below).
Hazardous decomposition:	(If applicable, information referring to individual components of the product is given below).

11. Toxicological Information	
Immediate effects, data for substance (or effects of certain components in preparations):	Specific Information for this product is not available.
Chronic effects from short and long term exposure:	May cause harm to unborn child. Possible risk or impaired fertility. Danger of cumulative effects.
Specific information referring to lead:	Classification as embryotoxic (teratogenic) R(E), category 1: Substance which is known to be embryotoxic (adverse to development) in humans.
Human:	To date, handling this product has not been known to cause any detrimental effects.

12. Ecological Information	
Data for elimination (persistence and degradability):	Mechanically separable in water treatment plants.
Behaviour in environmental compartments:	Product is slightly water- pollutive.
Ecological effects:	Product not investigated.

13. Disposal Considerations	
Look for Community provisions relating to waste. National or regional provisions may be in force.	
European Waste Catalogue waste number and waste designation for users in the ceramics industry:	EWC – No. 060405
Waste, containing other heavy metals. (Dangerous waste according to EC guideline 94/ 904/ EC).	



14. Transport Information	
Dangerous goods regulations	RID / ADR / IMDG – Code / ICAO – TI.
Land Transport ADR/RID (Interstate / Intrastate)	Not restricted
Inland Navigation ADN	For inland navigation consultation necessary.
Sea Transport IMDG	Not restricted
Air Transport ICAO-TI and IATA DGR	Not restricted
Water endangering class (Germany):	1
RQ (Reportable Quantity – USA):	

15. Regulatory Information		
Information on the label according to the Directives of EEC:		
Symbol(s) and indication(s) of danger:	T Toxic	
Hazardous Ingredient(s) for labelling, containing:	Lead in compounds and frits Cadmium (compounds)	
R Phrases	R20/21/22	Also harmful by inhalation, in contact with skin and if swallowed.
	R33	Danger of cumulative effects.
	R61	May cause harm to unborn child.
	R62	Possible risk of impaired fertility.
S Phrases	S2	Keep out of reach of children
	S22	Do not breathe dust.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S53	Avoid exposure – Obtain special instructions before use.
Any other national measures that may be relevant (ref. Annex II Directive 88/379/EEC)		
The safety data sheet is produced considering new directives of EEC. Missing or differing labelling may occur during transitional stage until all countries take over these regulations in their national jurisdiction.		
Lead –containing preparation:	"Containing lead. Do not use for painting articles which can be chewed or sucked by children."	
Water pollution class 1 (according VwVwS, annex 2).		



16. Other Information
The data presented here corresponds to the present state of our knowledge and experience and are intended to describe our product with respect to possible safety demands. We imply with this however no guarantee of properties or description of qualities.