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SAFETY DATA SHEET

3508	MANDARIN YELLOW SUNSHINE ONGLAZE COLOUR
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1. Identification of substance/preparation and of the company undertaking	
Trade Name:	Mandarin Yellow Sunshine Onglaze Colour.
Chemical Name:	-

2. Composition /information on ingredients		
Composition:	CAS – No.	Common Name
	65997-17-3	Glass oxide
		C.I. Pigment yellow 35
Hazardous Ingredients (Theoretically Calculated):		
Weight (%)	CAS – No.	Common Name
		Symbol R-Sentence
15.0 –40.0	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.	
Information referring to C.I. Pigment Yellow 35:	On contact with strong acids hydrogen sulphite is produced.

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.
Information referring to C I Pigment Yellow 35:	In the case of fire the following hazardous smoke fumes may be produced – cadmium oxide and sulphur dioxide.
Special protective equipment for Fire-fighters:	Usual measures for chemical fires.
Information referring to C I Pigment Yellow 35:	In the case of fire wear respirator independent of surrounding air.

6. Accidental Release Measure	
Personal Precautions:	Do not breathe dust. 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).
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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 substances, which are dangerous to a foetus. Comply with employment limitations for youths, pregnant women and nursing mothers. Keep out of reach of children. Do not breathe dust. Avoid exposure – obtain special instructions before use. Specific information referring to lead: The product should only be handled by trained personnel. Note employment restrictions for women of child-bearing age. Information referring to cadmium and compounds: The product should only be handled by trained personnel.
Storage:	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.
Information referring to C I Pigment Yellow 35:	Do not store together with strong acids. The product is slightly water endangering.

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.	
Cadmium compounds – Specific information (United Kingdom):	Maximum exposure limit (MEL): 0.05mg / m ³ 8-hour TWA (long-term).	
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	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:	Yellow
Odour:	Not Applicable

10. Stability & Reactivity	
Conditions to avoid:	No dangerous reactions are known to occur with correct handling and storage.
Information referring to C I Pigment Yellow 35:	Decomposition begins at 500 ^o C
Materials to avoid:	(If applicable, information referring to individual components of the product is given below).
Information referring to C I Pigment Yellow 35:	On contact with strong acids hydrogen sulphide is produced.
Hazardous decomposition:	(If applicable, information referring to individual components of the product is given below).
Information referring to C I Pigment Yellow 35:	Formation of Cadmium oxide and Sulphur dioxide if heated above decomposition temperature.

11. Toxicological Information	
Immediate effects, data for substance (or effects of certain components in preparations):	Specific Information for this product is not available.
Information referring to C I Pigment Yellow 35:	LD50 oral rat > 5100 mg/kg
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.
Information referring to C I Pigment Yellow 35:	Primary irritative effect to skin non-irritative (rabbit) OECD 404 Primary irritative effect to the eyes non-irritative rabbit OECD 405

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).		
For products containing substances which are damaging to foetus observe national legislation for employment restrictions.		
For products containing substances which are potentially dangerous to reproduction observe national legislation for employment restrictions.		
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.		

