



SAFETY DATA SHEET

3508

POLAR WHITE SUNSHINE ONGLAZE COLOUR

1. Identification of substance/preparation and of the company undertaking

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| Trade Name: | Polar White Sunshine Onglaze Colour. |
| Chemical Name: | - |

2. Composition /information on ingredients

| Composition: | CAS – No. | Common Name | |
|---|------------|-----------------------------|----------------|
| | 65997-17-3 | Glass oxide | |
| | | Cerium oxide | |
| | | | |
| 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.

4. First Aid Measures

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| 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. |



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| 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

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| 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

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| 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). |



7. Handling & Storage

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| Handling: | <p>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.</p> <p>Specific information referring to lead: The product should only be handled by trained personnel. Note employment restrictions for women of child-bearing age.</p> <p>Information referring to cadmium and compounds: The product should only be handled by trained personnel.</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

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| 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): | | |



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| 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

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| Physical State: | Powder |
| Colour: | White |
| Odour: | Not Applicable |

10. Stability & Reactivity

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| 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

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| 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

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| 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.

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| European Waste Catalogue waste number and waste designation for users in the ceramics industry: | EWG – No. 060405 |
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Waste, containing other heavy metals.

(Dangerous waste according to EC guideline 94/ 904/ EC).

14. Transport Information

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| 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:

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| 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 |



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| | | 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.

