



# MATERIAL SAFETY DATA SHEET



VERSION 2 – CLP / EC No. / 1272 / 2008

Ref: 23-696780 – MATRIX DYE ADDITIVE – BONE

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

- 1.1 Product Name: **MATRIX GROUT – Dye additive – BONE**
- 1.2 Applications: Grouting tile joints with a specific colour
- 1.3 Supplier: Laticrete UK Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 1YA  
Tel: 0151 486 6101; Fax 0151 448 1982
- 1.4 Emergency Telephone No. Tel: 0151 486 6101; Fax 0151 448 1982; e-mail: jp@palacechemicals.co.uk

## 2. HAZARDS IDENTIFICATION:

- 2.1 Classifications:  
(EC) No. 1272/2008 No Hazard classification applicable
- Hazard phrases: N/A
- Signal word: N/A
- Precautionary phrases: P102 - Keep out of reach of children.  
P260 - Do not breathe dust.  
P281 - Use personal protective equipment as required  
contact lenses, if present and easy to do. Continue rinsing.  
P302/P362 - IF ON SKIN, wash with plenty of soap and water.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove  
contact lenses, if present and easy to do. Continue rinsing  
P501a - Dispose of contents/container in accordance with local regulations.
- 2.2 Other hazards: N/A

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

- 3.1 Substances:
- 3.2 Mixtures: N/A  
Blends of finely graded silica sands, oxides & inert organic pigments

| Name:            | CAS No.:   | EINECS:   | Concentration: | Classification: |
|------------------|------------|-----------|----------------|-----------------|
| Iron oxide blend | 1317-61-9  | 215-277-5 | < 5.0 % w/w    | n/a             |
| Silica Sand      | 14808-60-7 | 238-878-4 | > 90.0 % w/w   | n/a             |

## 4. FIRST AID MEASURES:

- 4.1 Description of measures:
- EYE CONTACT: Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids. If irritation persists: Continue flushing during transport to hospital.
- INHALATION: Remove affected person to fresh air. If nose or airways become inflamed or breathing difficulties occur and irritation persists, seek medical attention.
- SKIN CONTACT: Remove contaminated clothing and wash skin with soap and water.
- INGESTION: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Seek medical attention if mouth is inflamed.



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## 4.2 Acute & Chronic symptoms:

**Inhalation:** Frequent inhalation of large quantities of dust over a long period of time increases the risk of developing lung diseases. The likelihood with this product is negligible as it is sealed in a water-soluble sachet before being dissolved in water, making inhalation is an unlikely route of entry

**Ingestion:** Unlikely route of entry unless handled with intent to self-harm

**Skin contact:** No adverse effects expected from exposure. Will readily wash off with warm soapy water.

**Eye Contact:** Nuisance dust in eyes may cause minor temporary irritation – irrigate with water

**4.3 Immediate medical attention:** See First Aid measures above

## 5. FIRE FIGHTING MEASURES:

**5.1 Extinguishing media:** Non-Flammable or combustible

**5.2 Combustion Hazards:** Oxides of carbon at very high temperatures.

**5.3 Advice for fire-fighters:** None applicable

## 6. ACCIDENTAL RELEASE MEASURES:

**6.1 Personal protection:** When used as directed the water-soluble sachet will prevent release of dust until dispersion in water is complete.

**6.2 Environmental precautions:** Contain spillage within a defined area and avoid discharge to watercourses and drains. Do not swill away with water – see removal method below

**6.3 Spill removal methods:** Ideally use an industrial vacuum cleaner and only brush residues when sprinkled with a dampened absorbent (sawdust or granules) into sealable containers when wearing personal protective equipment and ensuring adequate ventilation is available

**6.4 References to other sections:** Before attempting any clean-up operation, consult the requirements for protective equipment shown in section 8 of this document.

## 7. HANDLING & STORAGE:

**7.1 Safe handling precautions:** Lifting operations of no more than 1 unit pack (0.1kg) are advised when in use.

**7.2 (a) Safe storage conditions:** Store in sealed, clearly marked sacks. Keep out of reach of children in a cool, dry & well-ventilated environment, preferably off the ground and out of contact with water. This product must be stored in unopened bags & within double sealed sachet before use.

**7.2 (b) Incompatible materials:** Avoid exposure to moisture when in storage prior to use

**7.3 Specific storage conditions:** Keep in sealed packaging off the ground and away from contact with moisture.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

### 8.1 Control parameters

| Substance:                   | 8-hour exposure limit | Type: | Source: |
|------------------------------|-----------------------|-------|---------|
| Nuisance dust:<br>Respirable | 4mg/M3                | TWA   | EH40    |
| Nuisance dust:<br>Inhalable  | 10mg/M3               | TWA   | EH40    |

### 8.2 Exposure controls:

**Engineering controls:** Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust by using contained ventilation where practical.

**Respiratory protections:** Use respiratory equipment only when mixing dissolved dye with dry powder cement base



**Hand protection:** Wear heavy duty natural rubber gloves or gauntlets approved to EN 374 & EN 420 with a BTT rating of > 8 hrs for strong alkalis when mixing dissolved dye with dry powder cement base.

**Eye protection:** Dust proof BS 2092 Goggles or chemical grade visors are also advised wherever there is a risk of dust or paste entering the eyes when mixing dissolved dye with dry powder cement base .

**Other Protection:** PVC overalls with elasticated cuffs and closed neck should be worn and laundered immediately after use when mixing dissolved dye with dry powder cement base. skin care products (including barrier creams) to protect the skin from prolonged contact with wet cement. Particular care should be taken to ensure that wet cement does not enter the boots. In some circumstances such as when laying concrete or screed, waterproof trousers or Knee-pads are necessary.



**Hygiene measures:** Contact with skin must be washed off immediately

## 9. PHYSICAL & CHEMICAL PROPERTIES:

|                                 |                            |                                   |                    |
|---------------------------------|----------------------------|-----------------------------------|--------------------|
| <b>Appearance:</b>              | Fine coloured powder       | <b>Dry bulk density:</b>          | 600 - 2000 g/ltr   |
| <b>Odour:</b>                   | Negligible                 | <b>Wet Bulk Density:</b>          | 1800 g/ltr +/- 100 |
| <b>Odour threshold:</b>         | n/a                        | <b>Solubility in oils:</b>        | Insoluble          |
| <b>pH:</b>                      | >11.0 when mixed with base | <b>Water solubility:</b>          | Dispersible        |
| <b>Flash point:</b>             | n/a                        | <b>Auto-ignition temperature:</b> | n/a                |
| <b>Melting point:</b>           | n/a                        | <b>Decomposition temperature:</b> | n/a                |
| <b>Boiling point:</b>           | n/a                        | <b>Surface tension:</b>           | n/a                |
| <b>Evaporation rate:</b>        | n/a                        | <b>Viscosity:</b>                 | n/d                |
| <b>Upper/Lower Flam limits:</b> | n/a                        | <b>Explosive properties:</b>      | Nil                |
| <b>Vapour pressure:</b>         | n/a                        | <b>Oxidising properties:</b>      | Nil                |
| <b>Vapour density:</b>          | n/a                        | <b>Particle size:</b>             | 50 to 100 micron   |

## 10. STABILITY & REACTIVITY:

|                                     |                                    |   |               |
|-------------------------------------|------------------------------------|---|---------------|
| <b>10.1 Conditions to avoid:</b>    | Humidity & moisture during storage | <b>10.4 Reactivity:</b>                 | Stable        |
| <b>10.2 Incompatible Materials:</b> | Not known                          | <b>10.5 Chemical reactivity:</b>        | Aqueous media |
| <b>10.3 Decomposition hazards:</b>  | Stable                             | <b>10.6 Risk of hazardous reaction:</b> | Not known     |

## 11. TOXICOLOGICAL INFORMATION:

**11.1 Information on toxicological effects:** This product has not been exhaustively tested. Judgements on the expected toxicity of this product have been made based upon consideration of its' major components only when mixed with its' cement base prior to final application.

### Routes of exposure:

Inhalation, ingestion & contact with skin & eyes all have the potential for adverse effects on human organs when subject to acute and chronic levels of exposure. Chronic exposure to respirable dust in excess of occupational exposure limits may cause coughing, shortness of breath and may cause chronic obstructive lung disease (COPD).

### Eye damage/irritation:

Direct contact with dry cement may cause corneal damage by mechanical stress, i or delayed irritation. Direct contact by larger amounts of dry cement or splashes of wet cement may cause effects ranging from moderate eye irritation to chemical burns and blindness.

### Skin Corrosivity / Irritation:

Some individuals may exhibit eczema upon exposure to wet cement, caused either by the high pH which induces irritant contact dermatitis, or by an immunological reaction to soluble Cr (VI) which elicits allergic contact dermatitis [Reference (4)]. As this product contains a soluble Cr (VI) reducing agent and as long as the mentioned period of effectiveness of the chromate reduction is not exceeded, a sensitising effect is unlikely

### Respiratory/skin sensitisation:

Dry cement in contact with wet skin or exposure to moist or wet cement may cause thickening, cracking or fissuring of the skin. Prolonged contact in combination with abrasion can cause severe burns.



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## 12. ECOLOGICAL INFORMATION:

|  |   |                                    |  |
|--|---|------------------------------------|--|
| <b>12.1 Ecotoxicity:</b>                     | The product is not expected to be hazardous to the environment. | <b>12.4 Mobility in soil:</b>      | negligible   |
| <b>12.2 Bio-accumulative potential:</b>      | Not relevant  | <b>12.5 PBT and vPvB result:</b>   | Not relevant   |
| <b>12.3 Persistence &amp; degradability:</b> | After hardening, cement presents no toxicity risks.             | <b>12.6 Other adverse effects:</b> | Avoid contamination of watercourses as risks increasing alkalinity |

## 13. DISPOSAL CONSIDERATIONS:

**13.1 Waste treatment Methods:** To be disposed in accordance with local authority regulations for builders waste. Allow to harden, avoid entry in sewage and drainage systems or into bodies of water (e.g. streams) and dispose of according to the local legislation. Avoid entry into the sewage water system. Dispose of the hardened product as concrete waste. Due to the inertisation, concrete waste is not classed as a dangerous waste.

## 14. TRANSPORT INFORMATION:

### Transport Labels:

The components within this water dispersible dye sachet of this type are not covered by the international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID) and therefore no classification is required.

| Regulatory Code (Land, Sea & Air):        | ADR | IMDG | ICAO |
|---|-----|------|------|
| <b>14.1 UN No.:</b>                       |     |      |      |
| <b>14.2 Proper shipping name:</b>         |     |      |      |
| <b>14.3 ADR Packing Group:</b>            |     |      |      |
| <b>14.4 Transport Hazard Class:</b>       |     |      |      |
| <b>14.5 Environmental hazards:</b>        |     |      |      |
| <b>14.6 Special user precautions:</b>     |     |      |      |
| <b>14.7 Transport in bulk – IBC code:</b> |     |      |      |

## 15. REGULATORY INFORMATION:

### 15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

All components are listed as existing substances in Europe

#### UK Regulatory References:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing - Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

#### Statutory Instruments:

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.

#### Guidance Notes:

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG(108).

#### EU Legislation:

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European

Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC,

#### National Regulations:

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH ESSENTIALS - Easy Steps To Control Chemicals gives sound advice for deciding safe working control measures.

**Authorisations (Title VII Regulation 1907/2006)** - No specific authorisations are noted for this product.

**Restrictions (Title VIII Regulation 1907/2006)** - No specific restrictions of use are noted for this product.

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.



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## 16. OTHER INFORMATION:

**Last revision date:** 27/06/20

**SDS No.:** 23-696780

### List of abbreviations used in this SDS:

|              |  |
|--------------|--|
| <b>CAS</b>   | Chemical abstracts service   |
| <b>CLP</b>   | Classification, labelling & packaging regulation (EC) No. 1272/2008                          |
| <b>DSD</b>   | Dangerous substances Directive 67/548/EEC  |
| <b>DPD</b>   | Dangerous Products Directive 1999/45/EC  |
| <b>PBT</b>   | Persistent, Bio-accumulative & Toxic   |
| <b>REACH</b> | Registration, Evaluation, Authorisation & Restriction of Chemicals Regulation (EC) 1907/2006 |
| <b>vPvB</b>  | Very Persistent, very Bio-accumulative   |

**References:** Volume VII Approved supply list; EH40; Croner; Supplier RM safety data sheets

**Classification methods:**

**H phrases in section 2:** N/A

**Precautionary phrases:** P102 Keep out of reach of children.  
P260a Do not breathe dust.  
P280f Wear protective gloves, eye and face protection.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
P313 Get medical advice/attention.  
P501a Dispose of contents/container in accordance with local regulations.

### Training for workers:

**Disclaimer:** The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.