

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Lead Free Jewellery Enamel

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

1.1 Product identifier : Jewellery enamel: 8000, 8001, 8002, 8003, 8004, 8005, 8006, 8007, 8008, 8009, 8010, 8011, 8012, 8013, 8014, 8015, 8016, 8017, 8018, 8019, 8020, 8021, 8022, 8023, 8024, 8025, 8026, 8027, 8100, 8101, 8102, 8103, 8104, 8105, 8106, 8107, 8108, 8109, 8110, 8111, 8112, 8113, 8114, 8115, 8116, 8117, 8118, 8119, 8120, 8121, 8122, 8123, 8124, 8125, 8126, 8127, 8128, 8129, 8130, 8131, 8132, 8133, 8134

Coloured Borosilicate Glass

CAS: 65997-18-4
EC: 266-047-6
Index: Non-applicable
REACH: Non-applicable

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Enamel. For professional users only. Suited for firing, for metal.

1.3 Details of the supplier of the safety data sheet

Company : Milton Bridge Ceramic Colours Ltd.
Botteslow St., Hanley,
Stoke-On-Trent ST1 3LY
Telephone : +441782274229
Telefax : +441782281591
E-mail address : djb@milton-bridge.co.uk
Responsible/issuing person

1.4 Emergency telephone number

: +44 (0)1782 274229

2. Hazards identification

2.1 Classification of the substance or mixture:

Although the product contains colouring oxides the fact that the coloured frit is formed at high temperature renders it insoluble.

Classification (REGULATION (EC) No 1272/2008):

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Classification (67/548/EEC, 1999/45/EC):

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard Statements:

Non-applicable

Precautionary statements:

P270: Do not eat, drink or smoke when using this product

Supplementary information:

Non-applicable

2.3 Other hazards

No information available.

3. Composition/information on ingredients

Chemical description: Mixture composed of inorganic substances

Components:

In accordance with Annex II of regulation (EC) No. 1907/2006 (point 3), the product contains:

Identification:	Chemical name/Classification	Concentration
CAS: 65997-18-4 EC: 266-047-6	Frits, chemicals (exempt) Not classified	100%
Index: Non-applicable REACH: Non-applicable	Directive 67/548/EC Regulation 1272/2008	

To obtain more information on the risk of substances consult sections 8, 11, 12 and 16

4. First aid measures

4.1 Description of first aid measures

General advice : Consult a Doctor in case of discomfort. Show this Safety Data Sheet.

If inhaled : Prolonged exposure may cause irritation to respiratory tract. Seek medical advice if irritation persists.

In case of skin contact : Wash off with soap and water.

In case of eye contact : May cause irritation and inflammation. Irrigate with clean water.

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If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Show this Safety Data Sheet.

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects are indicated in sections 2 and 11

4.3 Indication of any immediate medical attention and special treatment needed

Non - applicable

5. Firefighting measures

5.1 Extinguishing media

The product is not combustible or explosive.

5.2 Special hazards arising from the substance or mixture

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, manipulation and use.

5.3 Advice for firefighters

Have available a minimum of emergency facilities and equipment (fire blankets, portable first aid kit) in accordance with Directive 89/654/EC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Respiratory protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent it from entering water courses and drains.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle.

6.4 Reference to other sections

See sections 8 & 13.

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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.
No special handling advice required.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : No special restrictions on storage with other products.
No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end uses

: Consult the technical guidelines for the use of this substance/mixture.

8. Exposure controls/personal protection

8.1 Control parameters:

* D:

MAK value: 10 mg/m³, measured as the inhalable aerosol content.

MAK value 3 mg/m³, measured as the alveolar aerosol content.

* USA:

TLV-TWA value: 3 mg/m³ (respirable particulate)

TLV-TWA value: 10 mg/m³ (inhalable particles)

* NL:

MAC-TGG (dust (respirable)): 5 mg/m³

MAC-TGG (dust (inhalable)): 10 mg/m³

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8.2 Exposure controls

8.2.1 Occupational exposure controls

8.2.1.1 Respiratory protection:

When handling observe the usual precautionary measures for dust-forming products.

Dust-protection mask if there is a risk of dust formation.

Respiratory equipment with dust-protection mask P1 is recommended

8.2.1.2 Hand Protection:

Protective gloves of leather or rubber are recommended.

8.2.1.3 Eye protection:

Goggles if there is a risk of dust formation.

8.2.1.4 Skin Protection:

No special precautions are necessary.

8.2.1.5 Personal Hygiene:

Observe usual precautions when handling chemicals.

Before eating or smoking and at end of work wash hands carefully with soap and water.

8.2.2 Environmental exposure controls

According to the law in force.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Powder / small lumps
Colour:	Various colours
Odour:	odourless
Odour threshold:	Not applicable
pH:	No data available
Melting point range:	No data available
Boiling point / range:	Not applicable
Flash point:	Not applicable
Evaporation rate:	Not applicable
Flammability (solid, gas):	No data available
Burning rate:	No data available
Lower explosion limit:	No data available
Upper explosion limit:	No data available

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Vapour pressure	: no data available
Relative density	: no data available
Specific Gravity	: > 2.0
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: not applicable
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available
Explosive properties	: no data available

9.2 Other information

Bulk density	: no data available
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10. Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions. No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Further information: No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : Stable under normal conditions.

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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Inhalation:	Unknown
Ingestion:	Test results of an analogous product: * ENAMEL with 0% PbO + CdO, 8.7% BaO and 5.5% Sb2O3 (pure): LD50 oral, rat: > 2000 mg/kg (Institut für Toxikologie der Bayer AG, Wuppertal)
Skin Contact:	Unknown
Eye Contact:	Unknown

CHRONIC TOXICITY

Chronic toxicity:	Our experience shows that ENAMEL (see section 16) can be handled without risk to health if used properly and if the usual precautions of industrial hygiene are observed.
Irritations / Sensitization:	Unknown

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12. Ecological information

12.1 Toxicity:

Not available

12.2 Persistence and degradability:

Not available

12.3 Bioaccumulative potential

Not available

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not available

12.6 Other adverse effects

Not available

13. Disposal considerations

13.1 Waste treatment methods

- | | |
|------------------------|---|
| Product | : Offer surplus and non-recyclable solutions to a licensed disposal company. |
| Contaminated packaging | : Empty remaining contents.
Empty containers should be taken to an approved waste handling site for recycling or disposal. |

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14. Transport information

14.1 UN number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship type : N/A

Pollution category : N/A

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15. Regulatory information

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

Candidate substances for authorization under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

Limitations to commercialization and the use of certain dangerous substances and mixtures (Annex XVII, REACH): Non-applicable

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

Other legislation:

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

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (CDG 2009), SI2009 No 1348

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment (Amended) Regulations 2011), 2011 No 1885

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits

The Waste Regulations 2011, 2011 No 988

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety

16. Other information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.