



Safety Data Sheet according to Directive 91/155/EC

Revision Date: January 2017

1) Identification of the substance/preparation and the company

Trade Name: Brodie&Middleton Pearl Lustre Pigments. Silver, Gold, Glitter, Bronze, Flash, Platinum Gold, Lilac, Copper, Blue, Green.

Application: Theatrical and Artists' Pigment

Manufacturer/Supplier:

Brodie&Middleton Ltd
30-31 Store Street
London WC1E 7QE

Telephone: 020-7836 3289

Fax: 020-7636 8733

2) Hazards Identification

Classification of the substance or mixture

This mixture is not classified as dangerous according to European Union legislation.

Label Elements

Hazard statements

Safety data sheet available on request.

Precautionary statements

P260 Do not breathe dust

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

Other hazards

None known.

3) Composition/Information on ingredients

Product name:

Silver	Mica coated with titanium dioxide
Gold	Mica coated with titanium dioxide, ferric oxide.
Glitter	Mica coated with titanium dioxide, ferric oxide.

Bronze	Mica coated with titanium dioxide, ferric oxide.
Flash	Mica coated with titanium dioxide Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0
Platinum Gold	Mica coated with titanium dioxide Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0
Red	Mica coated with titanium dioxide Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0
Lilac	Mica coated with titanium dioxide Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0
Copper	Mica coated with titanium dioxide, ferric oxide. Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0
Blue	Mica coated with titanium dioxide Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0
Green	Mica coated with titanium dioxide Tin oxide <10% CAS No: 18282-10-5 EC No.: 242-159-0

4) First Aid Measures

- If inhaled: Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
- In case of skin contact: Remove contaminated clothing. Wash the skin with plenty of water/shower.
- In case of eye contact: Flush with plenty of water.
- If swallowed: Make victim drink water – two glasses at most.
Get medical attention if any discomfort continues.
- Most important symptoms and effects, both acute and delayed:
We have no description of any toxic symptoms.
- Indication of any immediate medical attention and special treatment needed:
No information available.

5) Fire Fighting Measures

Extinguishing media

- Suitable extinguishing media: Use extinguishing measures that are appropriate for local circumstances and the surrounding environment.

Unsuitable extinguishing media: None.

Special hazards arising from the substance or mixture

Hazardous combustion products: Not combustible.

Specific hazards: Ambient fire may liberate hazardous vapours.

Advice for fire fighters

Protective equipment for fire-fighters: Self-contained breathing apparatus.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions: Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust. Provide adequate ventilation.

Environmental precautions

Environmental precautions: No special precautionary measures necessary.

Methods and Materials for Containment and Cleaning Up

Methods and materials: Avoid generation and spreading of dust. Collect spillage dry in containers, seal securely and deliver for disposal according to local regulations.

7) Handling and Storage

Precautions for Safe Handling

Advice on safe handling: Observe label precautions.

Hygiene Measures: Change contaminated clothing. Wash hands after working with substance.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in tightly closed original container in a dry and well-ventilated place.

Specific end use(s)

Theatrical and Artists' Pigment

8) Exposure/Personal Protection

Control parameters

Exposure Controls

Appropriate engineering controls: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Personal protective equipment

Eye/face protection: Wear approved safety glasses.

Skin protection:	Gloves not required.
Respiratory protection:	If ventilation is insufficient, suitable respiratory protection must be provided. Use filter P1 when dust is generated.
Hygiene measures:	Wash hands before breaks and at the end of the working day.
Environmental exposure controls	
General advice:	No special environmental precautions required.

9) Physical and chemical Properties

Form:	Powder.
Colour:	As in name of colour described above.
Odour:	Odourless
pH:	3-11 at 100 g/l 20°C (slurry).
Boiling Point:	No information available.
Melting point:	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Density at 20°C:	2.7 - 4.8g/cm ³
Bulk Density:	170-540 kg/m ³
Water solubility:	Practically insoluble
Vapour pressure:	No information available.
Relative vapour density	No information available.
Particle size:	10-100 µm

10) Stability and Reactivity

Reactivity:	No specific reactivity hazards associated with this product.
Chemical stability:	The product is chemically stable under standard ambient conditions (room temperature).
Possibility of hazardous reactions:	No information available.
Conditions to avoid:	No information available.
Incompatible materials:	No information available.
Hazardous decomposition products:	No information available.

11) Toxicological Information

Information on toxicological effects

Acute oral toxicity	This information is not available.
Acute inhalation toxicity	This information is not available.
Acute dermal toxicity	This information is not available.
Skin irritation	This information is not available.
Eye irritation	This information is not available.
Sensitisation	This information is not available.
Germ cell mutagenicity	This information is not available.
Carcinogenicity	This information is not available.
Reproductive toxicity	This information is not available.
Teratogenicity	This information is not available.
Specific target organ toxicity - single exposure:	This information is not available.
Specific target organ toxicity - repeated exposure:	This information is not available.
Aspiration hazard	This information is not available.

Further information

The results of animal experiments using pigments of this type indicate no toxicologically relevant properties. Since the substance is poorly absorbed, no hazardous properties are to be anticipated. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.

Handle in accordance with good industrial hygiene and safety practice.

12) Ecological Information

Ecotoxicity

The product components are not classified as environmentally hazardous.

Toxicity

No information available.

Persistence and degradability

No information available.

Biodegradability:

No information available.

Bioaccumulative potential

No data available on bioaccumulation.

Mobility in soil:

The product is insoluble in water.

Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

Other adverse effects

Discharge into the environment must be avoided.

Components

Tin dioxide

Toxicity to daphnia and other aquatic invertebrates

NOEC Daphnia magna (Water flea): > 100 mg/l; 48 h

(above the solubility limit in the test medium) (own results)

EC50 Daphnia magna (Water flea): > 100 mg/l; 48 h

(above the solubility limit in the test medium) (own results)

13) Disposal Information

Waste Treatment Methods

In authorised dumps, in accordance with Local Authority requirements.

Treat contaminated containers in the same way as product.

14) Transport Information

Not regulated as a dangerous good.

Not classified as dangerous in the meaning of transport regulations.

15) Regulatory Information

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

No compulsory identification under EC directives and national regulations.

Chemical Safety Assessment: No data available.

16) Other information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist