



Molten Metal Systems

Safety Data Sheet

(Information provided in this SDS has been prepared by competent and appropriately qualified and trained persons in accordance with The Morgan Crucible Company plc compliance procedures. It meets the requirements of the following standards and regulations: American National Standard ANSI Z400.1-2004, Australia National Code of Practice NOHSC:2011(2003), European Council Regulation (EC) 1907/2006 Annex II, United Nations Globally Harmonized System for Classification and Labelling of Chemicals Annex 4 (2005), and USA OSHA Hazard Communication Standard.)

SDS No: D1 Glazes & Paints	Date of First Issue: 31/01/2005 Date of Last Revision: 05/02/2010
-------------------------------	--

Section 1 – Products and Suppliers

Identification of the Product: YMG437, YMG518, YMG525, YMG528, YMP2EL, YMP5SS, YMP6XL, YMP7SP, OBA LT (inc. all size derivatives), PD coating.

Use of the Product: Paints used for the protection & cosmetic treatment of Crucibles & Heater Sheaths used for the holding & melting of metals for casting & other metal treatment processes

Suppliers and emergency contact information:

Morgan Molten Metal Systems GmbH	Morganite Crucible Inc	Morganite Crucible (India) Ltd	Morganite Brasil Ltd	Diamond Crucible Co Ltd	Morgan Molten Metal Systems (Suzhou) Co. Ltd.
Noltinastrasse 29	22 North Plains	Works B-11, MIDC	Av do Taboão, 3265	212-C, GIDC	No. 108, Tongsheng Rd Shengpu
D-37297	Ind. Estate, Unit 1	Waluj 431 136	São Bernardo do Campo	Mehsana 384 002	Suzhou Industrial Park
Berkatal	Wallingford	Aurangabad	São Paulo	Gujarat	Suzhou
	CT 06492		SP 09656-000		
GERMANY	USA	INDIA	BRASIL	INDIA	CHINA
+49 (0)5657 7010 0800-1600 hrs GMT+ 01:00 Mon-Fri	+1 (0)203 697 0808 0900-1700 hrs GMT +01:00 Mon-Fri	+91 (0)240 255 4405 0900-1700 hrs GMT+ 05:00 Mon-Fri	+55 (0)11 4075 0400 0900-1700 hrs GMT+ 05:30 Mon-Fri	+91 (0) 2762 253 132 0900-1700 hrs GMT+ 05:30 Mon-Fri	+86(0)512629 23188 0830-1700 hrs GMT + 08:00 Mon-Fri

SDS enquiry dedicated email address:

SDS@morganplc.com

Section 2 – Hazard Identification

Emergency overview:

The components of these products are not classified as hazardous according to REGULATION (EC) No 1907/2006.

Chronic health effects: none

Short-term exposure effects: none

Physical hazards: none

Potential hazards during use;

Splashes may cause irritation to skin and eyes.

Once installed and commissioned, product may release dust if abraded, broken or otherwise damaged through mishandling

Section 3 – Hazardous Components

Description: Water-based coloured suspension, supplied in sealed containers

Composition: The components of these product are not classified as hazardous according to REGULATION (EC) No 1907/2006.

COMPONENT	% by weight	EINECS number	CAS number	Symbol	R Phrases
Water	20-40	231-791-2	7732-18-5	N/A	N/A
Glass Frit	30-50	266-046-0	65997-17-3	N/A	N/A
Acrylic Emulsion	10-30	Mixture	Mixture	N/A	N/A
Pigment	<20	215-570-8	1332-37-2	N/A	N/A
Organic Additives	<10	232-674-9	9004-34-6	N/A	N/A

Section 4 – First Aid Measures

Inhalation:

Symptoms of Exposure: Dryness in throat or coughing due to exposure to respirable dust.

First Aid measures: Remove to fresh air, if symptoms persist seek medical attention.

Skin Contact:

Symptoms of Exposure: Drying of the skin after contact with wet material. Mechanical irritation to skin due to exposure to dust.

First Aid measures: Remove contaminated clothing. Wash area of contact thoroughly with water. Seek medical attention.

Eye Contact:

Symptoms of Exposure: Mechanical irritation to eyes due to exposure to wet material or dust.

First Aid measures: Wash eyes immediately with large amounts of water. Do not rub eyes. Seek medical attention.

Ingestion:

Symptoms of Exposure: Possible stomach problems due to ingestion of wet material or dust.

First Aid measures: Seek medical attention.

Section 5 – Fire-fighting Measures

These products are non-flammable.
Packaging and surrounding materials may be combustible.
Use extinguishing agent suitable for packaging and other materials stored nearby.

Section 6 – Accidental Release Measures

- Personal Precautions:** Ensure good ventilation to area. Avoid creating airborne dust. Spillages can create slippery conditions underfoot. Wear personal protective equipment as detailed in section 8.
- Environmental Precautions:** Clean up spillage immediately. Ensure material does not enter drainage system.
- Methods for cleaning up:** Absorb liquid spillage with inert absorbent material. Rinse residue with water. Use wet sweeping or vacuuming to clean the work area, do not use compressed air or dry sweeping. If vacuuming, the vacuum cleaner should be equipped with a high efficiency particulate filter.

Section 7 – Handling and Storage

- Handling:** Take care not to damage container. Store mouth up and close off when not in use.
- Storage:** Store in dry conditions away from strong heat sources.
- Specific Use:** For safe & efficient use of the product, working practices must comply with the recommendations described in the relevant product datasheet, available from the manufacturer.

Section 8 – Exposure Controls and Personal Protection

Exposure limits and guidelines (many jurisdictions have exposure limits and control guidelines for substances not listed elsewhere as hazardous - consult and comply with local regulations where they exist):

Exposure Limit Values:

Industrial hygiene standards and occupational exposure limits vary between countries and local jurisdictions. Check which exposure limits apply to your facility. In the absence of exposure information, or if no regulatory dust or other standards apply, the manufacturer recommends the control of respirable dust exposures to the UK limit for nuisance dusts of 4 mg/m³/8hour time weighted average (TWA) or less.

Exposure Controls:

Review your working practices in order to identify potential sources of dust exposure. If necessary conduct personal air monitoring. Where technically and economically feasible, use engineering controls. These may include local exhaust ventilation & equipment to remove airborne dust or materials.

Personal Protective Equipment:

Respiratory Protection: Wear approved respirator when dust or spray concentrations may be above the exposure limit.

Hand Protection: Wear protective gloves.

Eye Protection: Wear chemical resistant glasses with side shields or other appropriate forms of eye protection.

Skin Protection: Wear safety shoes and appropriate work overalls when working with the product.

Section 9 – Physical and Chemical Properties

Appearance: Coloured Viscous Suspension

Odour: None

pH: 6-10

Boiling Point: 100°C

Flash Point: Non-flammable

Density Range: 1.3-1.9gcm⁻³

Water Solubility: Miscible with water

Volatile Organic Content (VOC): 20g/l

***Melting point OBA-LT** 700 °C

Section 10 – Stability and Reactivity

Chemical Stability:

Stable under conditions of normal use.

Conditions to Avoid:

Rapid heating of damp material from incomplete or inadequate dry out during commissioning on porous substrate.

Materials to Avoid:

Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products:

At elevated temperatures, water vapour, steam and VOCs will be emitted.

Section 11 – Toxicological Information

Inhalation: No known effect.

Skin Contact: No known effect.

Eye Contact: No known effect.

Ingestion: No known effect.

Section 12 – Ecological Information

These products are inert materials, which remain stable over time.

No ecological concerns have been identified or are anticipated.

Section 13 – Disposal Considerations

Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

Contamination during use or chemical additions to the product may alter the disposal requirements.

Section 14 – Transport Information

Not classified as dangerous goods under IMDG (sea), ADR (road), RID (rail), or ICAO/IATA (air) regulations. Consult local, regional, state or provincial regulations.

Section 15 – Regulatory Information

There are no known local, national or international regulations or restrictions that apply to the manufacture, use or disposal of these products. Consult local authorities if additional information is required.

Section 16 – Other Information

For best performance & recommended handling & storage practices refer to the relevant product datasheet, available from the manufacturer.

Reasonable care has been taken in the preparation of information contained in this Safety Data Sheet, and the information is provided in good faith. Morgan Carbon Division assumes no responsibility as to the accuracy of information drawn from the stated sources. No warranty, expressed or implied, is made.