

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

# D1 Glazes & Paints

OBA LTP Low Temperature Paintings

CAS No.:  
EG No.:  
INDEX No.:  
REACH No.:

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

**Relevant identified uses:** Metal production and processing, including alloys  
**Uses advised against:** Other

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer

Morgan Molten Metal Systems GmbH

Noltinastrasse 29  
D 37297 Berkatal

**Telephone:** +49 (0) 56 57 7010

**Telefax:**

Morgan Molten Metal Systems (Suzhou) Co. Ltd.

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Morganite Brasil Ltda

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**Telefax:**

São Paulo

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Morgan Molten Metal Systems GmbH

Noltinastrasse 29  
D 37297 Berkatal

**Telephone:** +49 (0) 56 57 7010

**Telefax:**

#### Information contact

Morgan Molten Metal Systems GmbH

**Information telephone:** +49 (0) 56 57 7010

**Information telefax:**

**E-mail (competent person):**

**Website:** <http://www.morganmms.com/>

## 1.4. Emergency telephone number

Morgan Molten Metal Systems GmbH  
This number is serviced during office hours.

Telephone: +49 (0) 56 57 7010

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008: - No dangerous material! (No dangerous material!)

### 2.2. Label elements

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms: -

Signal word: -

Hazard statements: -

Precautionary statements:

Hazardous component(s) for labelling

#### Special labelling of particular preparations:

Only for commercial users. Safety data sheet available for professional user on request. May produce an allergic reaction. Contains: MIXTURE OF: 5-CHLOR-2-METHYL-2H-ISOTHIAZOL-3-ON AND 2-METHYL-2H-ISOTHIAZOL-3-ON (3:1), 2-METHYL-2H-ISOTHIAZOL-3-ON, 1,2-BENZISOTHIAZOL-3(2H)-ON.

### 2.3. Other hazards

This substance / mixture does not contain components in concentrations of 0.1% or higher, which are classified as either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB). No risks worthy of mention. Please observe the information on the safety data sheet at all times. Preparations supplied in a dry form may release dust during handling until mixed with water as per installation and operating instructions. Once installed and commissioned, all preparations may release dust if products are abraded, broken or otherwise damaged through mishandling. Crystalline silica is present as a natural impurity in some of the product components and can be produced in small quantities within the product during prolonged use above 900 °C. Long-term exposure to respirable crystalline silica may cause lung disease, including silicosis, and an increased risk of developing lung cancer.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

aqueous suspensions containing ceramic materials

#### Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
inhalable Quartz	238-878-4	14808-60-7			0 - 5 %	STOT RE 1, H372
Naturally occurring substances, Kaolinite	310-127-6	999999-99-4			0 - 5 %	STOT RE 1, H372
Sodium nitrite	231-555-9	7632-00-0	007-010-00-4		< 1 %	Ox. Liq. 2, H272 Acute Tox. 3, H301 Aquatic Acute 1, H400

Boronic acid	233-139-2	10043-35-3	005-007-00-2		< 0,1 %	Repr. 1B, H360FD Specific Concentration Limit: C >= 5 % Repr. 1B
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(Full text of H- and EUH-phrases: see section 16.)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- General information:** In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
- Following inhalation:** Provide fresh air. In case of respiratory tract irritation, consult a physician.
- Following skin contact:** In case of skin irritation, consult a physician.
- After eye contact:** In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Seek medical attention if problems persist.
- After ingestion:** Rinse mouth immediately and drink plenty of water. Seek medical attention if problems persist.

### 4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

### 4.3. Indication of any immediate medical attention and special treatment needed

No special measures are necessary. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media:** Water fog. High power water jet. Carbon dioxide (CO<sub>2</sub>). Foam. dry extinguishing powder.
- Unsuitable extinguishing media:** none

### 5.2. Special hazards arising from the substance or mixture

none

### 5.3. Advice for firefighters

#### General information

Co-ordinate fire-fighting measures to the fire surroundings. The product itself does not burn.

#### Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

No special precautionary measures are necessary.

#### Precautions against fire and explosion

No special fire protection measures are necessary.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep/Store only in original container. Keep container tightly closed.

#### Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Storage class: 12

### 7.3. Specific end use(s)

Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit value

Substance:	CAS-No.:		Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m <sup>3</sup> ]	Limitation of exposure peaks:	Remark:
inhalable Quartz	14808-60-7	USA	GESTI S - Internationale Grenzwerte		0,05		

#### Substance with a common (EC) occupational exposure limit value

Substance:	CAS-No.:		Source :	Occupational exposure limit value:[ppm]	Occupational exposure limit value:[mg/m <sup>3</sup> ]	Limitation of exposure peaks:	Remark:
inhalable Quartz	14808-60-7	EU	RICHT LINIE (EU) 2017/2398		0,1 A-Staub		

#### DNEL-/PNEC-values

##### DNEL value

Substance:	CAS-No.:	DNEL/DMEL

##### PNEC Value

Substance:	CAS-No.:	PNEC

**Remark:**

A: respirable fraction

## 8.2. Exposure controls

### Occupational exposure controls

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

### General protection and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Apply skin care products after work. Wash contaminated clothing prior to re-use.

### Personal protection equipment

#### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: Dust formation. Suitable respiratory protection apparatus:

#### Hand protection

Hand protection is not required

#### Eye/face protection

Tightly sealed safety glasses. Eye glasses with side protection

#### Body protection

Body protection: not required.

### Environmental exposure controls

refer to chapter 7. No further action is necessary.

### Consumer exposure controls

refer to chapter 7. No further action is necessary.

### Exposure Scenario

none

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:**

**Physical state:** Liquid  
**Colour:** coloured  
**Odour:** odourless  
**Odour threshold:** No data available

#### Safety relevant basis data

	Parameter	Value	Unit	Remark
pH:	10 g/L (at 20 °C)	6 - 10		
Melting point/freezing point:		700	°C	solid
Initial boiling point and boiling range:		100	°C	Water
Flash point:				not applicable
Evaporation rate:				No data available
Flammability (solid, gas):				none
Explosive properties:				not explosive.
Lower flammability or explosive limits:				not applicable

<b>Upper flammability or explosive limits:</b>		not applicable
<b>Vapour pressure:</b>		No data available
<b>Vapour density:</b>		No data available
<b>Relative density:</b>		No data available
<b>Density:</b>	1,3 - 1,9 g/cm <sup>3</sup>	
<b>Solubility(ies):</b>	:	not applicable
<b>Partition coefficient: n-octanol/water:</b>		No data available
<b>Auto-ignition temperature:</b>		No data available
<b>Decomposition temperature:</b>		No data available
<b>Viscosity:</b>		No data available
<b>Metal corrosive properties</b>		No data available
<b>Oxidising properties:</b>		Not oxidising.

## 9.2. Other information

<b>Bulk density:</b>		not applicable
<b>Water solubility:</b>		miscible
<b>Fat solubility:</b>		practically insoluble
<b>Solvent separation test:</b>		No data available
<b>Solvent content:</b>	20 g/L	
none		

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No known hazardous reactions.

### 10.2. Chemical stability

The substance is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

none

### 10.4. Conditions to avoid

No information available.

### 10.5. Incompatible materials

Hydrogen fluoride

### 10.6. Hazardous decomposition products

No information available.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

No information available.

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
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#### Skin corrosion/irritation

No information available. Not an irritant. Bridging principle "Dilution".

#### **Serious eye damage/irritation**

No information available. Not an irritant. Bridging principle "Dilution".

#### **Respiratory or skin sensitisation**

No information available. not sensitising. Bridging principle "Dilution".

#### **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

##### **Carcinogenicity**

There are no data available on the preparation/mixture itself. No indication of human carcinogenicity.

Bridging principle "Dilution".

##### **Germ cell mutagenicity**

There are no data available on the preparation/mixture itself. No indications of human germ cell mutagenicity exist. Bridging principle "Dilution".

##### **Reproductive toxicity**

There are no data available on the preparation/mixture itself. No indications of human reproductive toxicity exist. Bridging principle "Dilution".

#### **STOT-single exposure**

No information available.

#### **STOT-repeated exposure**

The product is: aqueous suspensions containing ceramic materials Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

No information available. Not an irritant. Bridging principle "Dilution".

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## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No information available.

#### **Ecotoxicity**

Substance:	CAS-No.:	Ecotoxicity
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### **12.2. Persistence and degradability**

The methods for determining the biological degradability are not applicable to inorganic substances.

### **12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

### **12.4. Mobility in soil**

No information available.

### **12.5. Results of PBT and vPvB assessment**

The mixture contains the following substances fulfilling the PBT-/vPvB criteria according to REACH Annex XIII

### **12.6. Other adverse effects**

none

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Appropriate disposal/Product:**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**Appropriate disposal / Package:**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**List of proposed waste codes/waste designations in accordance with EWC**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Waste code product:** 10 09 05 - 10 09 08, 10 10 05 - 10 10 08

**Waste code packaging:** 15 01 06

## SECTION 14: Transport information

### 14.1. UN number

UN No.: none

### 14.2. UN proper shipping name

**ADR / RID**

No dangerous good under transport regulations.

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**IMDG / ICAO-TI / IATA-DGR**

No dangerous good under transport regulations.

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### 14.3. Transport hazard class(es)

Hazard label(s):: none

Classification Code:

none

### 14.4. Packing group

Packing Group: keine

### 14.5. Environmental hazards

**Labelling environmentally hazardous substances**

**ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR:**

yes /  no

**Marine Pollutant:**

yes /  no

### 14.6. Special precautions for user

**Land transport (ADR/RID)**

Transport category: none

Special provisions: none

**Tunnel restriction code:** none

**Limited quantity (LQ):** none

**Sea transport (IMDG)**

EmS-No: none

Special provisions: none

**Limited quantity (LQ):** none

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Remark: none



## SECTION 15: Regulatory information

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

#### EU legislation

##### Regulation (EC) No 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register:

The substance / mixture / product with its ingredients is not subject to the Regulation.

##### Regulation (EC) No 1005/2009 on substance that deplete the ozone layer:

The substance / mixture / product with its ingredients is not subject to the Regulation.

##### Regulation (EC) No 648/2004 on detergents:

The substance / mixture / product with its ingredients is subject to the Regulation.

##### Regulation (EC) No 850/2004 on persistent organic pollutants:

The substance / mixture / product with its ingredients is not subject to the Regulation.

##### Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals:

The substance / mixture / product with its ingredients is not subject to the Regulation.

##### Restrictions according to Title VIII of Regulation (EC) No 1907/2006:

Use restriction according to REACH annex XVII, no.: Entry 30 - labelling 'Restricted to professional users'

#### National regulations

Observe in addition any national regulations!

#### Restrictions of occupation

No information available.

#### Other regulations, restrictions and prohibition regulations

none

### 15.2. Chemical Safety Assessment

#### A chemical safety assessment has been carried out for this substance: -

For this substance a chemical safety assessment is not required.

## SECTION 16: Other information

### Relevant H- and EUH-phrases (Number and full text)

#### Hazard statements

H301 Toxic if swallowed.

H360FD May damage fertility. May damage the unborn child.

H372 Causes damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H373 May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H400 Very toxic to aquatic life.

#### Training advice

none

#### Recommended restrictions of use

refer to chapter 1.

#### **Further information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

#### **Documentation of changes**

Complete revision

Change in composition, classification of the mixture and evaluation method used in accordance with Regulation (EC) No 1272/2008 [CLP]

#### **Key literature references and sources for data**

Information comes from reference works, the literature or safety data sheets of the components.

#### **Abbreviations and acronyms**

none

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