

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

### 1.1. Product identifier

# A2 Clay-bonded SiC/Graphite

SYNCARB, SYNCARB Z2, ISOALUSTAR, GRAFIT, SALAMANDER SUPER, INDUX, HOTROD, GRAFINOX, SIGMA, SIGMA Z2, ALPHA (inkl. Beschichtung mit PRO Coating, STAR Coating, ResCoat (früher SICH) Coating, PureCoat (früher SI3N4) Coating)

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.

108 Tong Sheng Lu  
CN 215 126 Suzhou

**Telephone:** +86 (0) 512 6292 3188

**Telefax:**

Jiangsu

Morganite Crucible (India) Ltd

B-11 M.I.D.C.  
IN 431 136 Waluj Aurangabad

**Telephone:** +91 (0) 240 2554405

**Telefax:**

Maharashtra

Diamond Crucible Co. Ltd

B-11 MIDC  
IN 384 002 Mehsana

**Telephone:** +91 (0) 2762 254 186

**Telefax:**

Gujarat

Morganite Brasil Ltda

Av do Taboão 3265  
BR 09565-000 São Bernardo do Campo

**Telephone:** +55 (0) 11 4075-0400

**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

Telephone: +49 (0) 56 57 7010

This number is serviced during office hours.

## 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

none

Special labelling of particular preparations:

none

### 2.3. Other hazards

May release dust if the product has been abraded, broken or otherwise damaged by improper handling.

Risk of burns due to incorrect handling at high temperatures. Risk of product chipping during heating when stored in moist conditions.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

The mixture consists of components that are not classified according to Regulation (EC) No. 1272/2008 [CLP].

#### Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
-						

(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:** Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. 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.

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## 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.

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## SECTION 6: Accidental release measures

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

Wear personal protection equipment. Remove persons to safety. Provide adequate ventilation.

### 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

Take up mechanically, placing in appropriate containers for disposal. Treat the recovered material as prescribed in the section on waste disposal. Avoid generation of dust. Clear contaminated areas thoroughly. Wash with plenty of water.

### 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

Be careful not to damage the product as this may cause dust. Some of the larger products are very heavy and caution is advised to avoid injury. The use of suitable lifting and transport equipment is recommended for this purpose.

#### 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 the packing dry and well sealed to prevent contamination and absorption of humidity.

#### Hints on joint storage

Do not store together with: Oxidizing agents. Keep away from food, drink and animal feedingstuffs.

Storage class: 13

### 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:

#### 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:

#### DNEL-/PNEC-values

##### DNEL value

Substance:	CAS-No.:	DNEL/DMEL

##### PNEC Value

Substance:	CAS-No.:	PNEC

#### Remark:

Does not contain substances above concentration limits fixing an occupational exposure limit. In case of dust formation and no national occupational exposure limits, the manufacturer recommends to use the limit of 4 mg/m<sup>3</sup>/8h (respirable dust, UK) or less.

### 8.2. Exposure controls

#### Occupational exposure controls

Provide adequate ventilation as well as local exhaust 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.

#### Hand protection

The use of resistant protective gloves is recommended. Skin protection creams do not offer as effective protection as protective gloves. Therefore, suitable protective gloves should be preferred as much as possible.

Suitable material: No information available.

Experience has shown that the following glove materials are suitable for protection against undissolved solids: CR (polychloroprene, chloroprene rubber), NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), PVC (polyvinyl chloride).

#### Eye/face protection

Tightly sealed safety glasses. Eye glasses with side protection

#### Body protection

For protection against direct skin contact, foundry protective clothing and safety shoes (in addition to the usual work clothing) are 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:	solid
Colour:	black
Odour:	odourless
Odour threshold:	none

#### Safety relevant basis data

	Parameter	Value	Unit	Remark
pH:				not applicable
Melting point/freezing point:		600 - 1300	°C	glaze
Initial boiling point and boiling range:				not applicable
Flash point:				not applicable
Evaporation rate:				not applicable
Flammability (solid, gas):				none
Explosive properties:				not explosive.
Lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Vapour pressure:				not applicable
Vapour density:				not applicable
Relative density:				No data available
Density:		1,65 - 2,05	g/cm <sup>3</sup>	No data available
Solubility(ies):	:			not applicable

Partition coefficient: n-octanol/water:	not applicable
Auto-ignition temperature:	none
Decomposition temperature:	none
Viscosity:	not applicable
Metal corrosive properties	Not corrosive to metals.
Oxidising properties:	Not oxidising.

## 9.2. Other information

Bulk density:	not applicable
Water solubility:	insoluble
Fat solubility:	insoluble
Solvent separation test:	not applicable
Solvent content:	not applicable

none

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Rapid heating of damp material (from damp storage conditions).

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

When using fluxes and other metallurgical treatment chemicals with the product, chemical decomposition of the product is possible.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

There are no data available on the mixture itself.

The mixture is not classified as toxic for the purposes of Regulation (EC) No 1272/2008 [GHS] (summation method).

#### Acute toxicity

Substance:	CAS-No.:	Toxicological information
-		

#### Skin corrosion/irritation

Not an irritant. Possible mechanical irritant effect of dust generated from damaged product.

#### Serious eye damage/irritation

Not an irritant. Possible mechanical irritant effect of dust generated from damaged product.

### Respiratory or skin sensitisation

not sensitising. Dust generated by a damaged product may contain small amounts of silica 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.

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

#### Carcinogenicity

No indications of human carcinogenicity exist.

#### Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.

### STOT-single exposure

No information available.

### STOT-repeated exposure

No information available.

### Aspiration hazard

Not an irritant.

## SECTION 12: Ecological information

### 12.1. Toxicity

The mixture is not classified as dangerous for the environment within the meaning of Regulation (EC) No. 1272/2008 [GHS] (summation method).

#### Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
-		

### 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

This substance does not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

No information available.

## 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**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**Waste code product:**

**Waste code packaging:**

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## 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.

### 14.3. Transport hazard class(es)

Hazard label(s):: none

Classification Code:

none

### 14.4. Packing group

Packing Group: none

### 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:

not relevant

#### National regulations

Observe in addition any national regulations!

#### Restrictions of occupation

none

#### Other regulations, restrictions and prohibition regulations

none

### 15.2. Chemical Safety Assessment

**A chemical safety assessment has been carried out for this substance:** none

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

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#### 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**

Revision of: all sections

**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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