

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

1.1. Product identifier

A1 C-bonded SiC/Graphite

EXCEL (& derived), STABIL (& derived), AMAND (& derived), COPPERSTAR, HI-MELT, ULTRAMELT, AURORA, STARBIDE, BLACKSTAR, SUPREX, SALAMANDER GF, OMNIMELT (incl. coating with PRO Coating, STAR Coating, ResCoat (formerly SiCH) Coating, PureCoat (formerly Si3N4) Coating)

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

Telephone: +49 (0) 56 57 7010

Noltinastrasse 29
D 37297 Berkatal

Morgan Molten Metal Systems (Suzhou) Co. Ltd.

Telephone: +86 (0) 512 6292 3188

108 Tong Sheng Lu
CN 215 126 Suzhou Jiangsu

Morganite Crucible (India) Ltd

Telephone: +91 (0) 240 2554405

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

Morganite Brasil Ltda

Telephone: +55 (0) 11 4075-0400

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

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

Morgan Molten Metal Systems GmbH

Telephone: +49 (0) 56 57 7010

Noltinastrasse 29
D 37297 Berkatal

Information contact

Morgan Molten Metal Systems GmbH

Information telephone +49 (0) 56 57 7010

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!

2.2. Label elements

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

Hazard pictograms

Signal word: -

Hazard statements: -

-

Precautionary statements: -

-

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:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Methenamine	100-97-0		1 %	Flam. Sol. 2, H228; Skin Sens. 1, H317	M = 1

(Full text of H- and EUH-statements: 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

In case of 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: No special measures are necessary. Seek medical attention if problems persist.

After ingestion: No special measures are necessary. 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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray jet Full water jet Carbon dioxide (CO₂) 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 fire-fighters:

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

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.

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 ³]	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 ³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
Methenamine	100-97-0	worker inhalative 31 mg/m ³

PNEC Value

Substance:	CAS-No.:	PNEC
Methenamine	100-97-0	aquatic, freshwater 3 mg/l aquatic, marine water 0,5 mg/l sediment, freshwater 2,4 xxx(mg/kg) sediment, marine water 0,4 xxx(mg/kg) sewage treatment plant 100 mg/l

Additional information

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/m³/8h (respirable dust, UK) or less.

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

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

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: coloured black
Odour: odourless
Odour threshold: not applicable

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:		600 - 1300	°C	glaze
Initial boiling point and boiling range:				not applicable
Flammability:				not applicable
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:				not applicable
Ignition temperature:				No data available
Decomposition temperature:				No data available
pH:				No data available
Kinematic viscosity:				not applicable
Water solubility (g/L):				not applicable
Partition coefficient: n-octanol/water:				not applicable
Vapour pressure:				not applicable
Density:		1,65 - 2,10	g/cm ³	
Relative density:				No data available
Particle properties:				No data available

9.2. Other information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

No known hazardous reactions.

10.2. Chemical stability

With proper storage and handling the product is stable.

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

none

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 hazard classes within the meaning of Regulation (EC)

No. 1272/2008

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).

M-factor:	-	Acute toxicity (dermal):	-
Acute toxicity (oral):	-	Acute toxicity (inhalative):	-

Acute toxicity

Substance:	CAS-No.:	Toxicological information
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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,

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.

Additional information
none

11.2. Information about other hazards

11.2.1 Endocrine disrupting properties

No known endocrine disrupting properties

11.2.2 Other Information

none

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] (principle of Additivity).

Ecotoxicity

Substance:	CAS-No.:	Ecotoxicity
Methenamine	100-97-0	LC50 (fish, 96 h) 49400 mg/L

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 Endocrine disruptive effect

No known endocrine disrupting properties

12.7. 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 according to EWC / AVV

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

SECTION 14: Transport information

14.1. UN number

UN No.: none

14.2. UN proper shipping name

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

-

Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

-

14.3. Transport hazard class(es)

Hazard label(s) / Label:

Classification code: / Classification Code: -

14.4. Packing group

Packing group/ Packing Group: -

14.5. Environmental hazards

ADR/RID / IMDG / ICAO-TI / IATA-DGR:
Marine pollutant:

Yes

No

14.6. Special precautions for user

Land transport (ADR/RID)

transport category: -

Special provisions: -

tunnel restriction code: -

Limited quantity (LQ): -

Sea transport (IMDG)

EmS-No: none

Special provisions: none Limited quantity (LQ): -

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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. 1005/2009 on substances that lead to the depletion of the ozone layer

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

Regulation (EU) No 649/2012 on the export and import of dangerous chemicals

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

The substance/product is registered with strictly controlled conditions as defined in Article 18(4) of Regulation (EC) No. 1907/2006 (REACH Regulation) and must therefore be handled as such.

not relevant

National regulations

Observe in addition any national regulations!

Restrictions of occupation

none

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

not relevant

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

For this preparation a chemical safety assessment has been carried out. Nein

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

-

Training advice

none

Recommended restrictions of use:

refer to chapter 1.

Further remarks:

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

Documentation of changes:

Revision of: all sections

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none
