

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

### 1.1. Product identifier

# B3 Salpack Products - Aluminabased preparations

Morcoat 527

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:** Foundry preparation for use as a special coating for holding, melting, handling and processing of metal for casting and other metalworking processes

**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

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**Telefax:**

Morgan Molten Metal Systems (Suzhou) Co. Ltd.

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**Telefax:**

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#### 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:

Repr. 1A, H360FD

### 2.2. Label elements

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

Hazard pictograms:



Signal word:

GHS08

Danger

Hazard statements:

H360FD

May damage fertility. May damage the unborn child.

Precautionary statements:

P201

Obtain special instructions before use.

P202

Do not handle until all safety precautions have been read and understood.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P308+313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

P501

Dispose of contents/container in accordance with local regulations.

**Hazardous component(s) for labelling**

boric acid

**Special labelling of particular preparations:**

Restricted to professional users.

### 2.3. Other hazards

This substance/mixture contains 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). (Boric acid)

Mild acid, splashes can cause irritation of the skin or eyes.

## SECTION 3: Composition / information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

in aqueous solution

### Composition/information on ingredients

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
boric acid	233-139-2	10043-35-3	005-007-00-2		10 - 25 %	Repr. 1A, H360FD

(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). Take off immediately all contaminated clothing.
- Following inhalation:** Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.
- Following skin contact:** 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

First Aid, decontamination, treatment of symptoms.

## 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

Wear personal protection equipment. Remove persons to safety. Special danger of slipping by leaking/spilling product.

## 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. 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

Keep container tightly closed and in a well-ventilated place. Avoid dust formation. Be careful not to damage the product as this may cause dust.

### Precautions against fire and explosion

Usual measures for fire prevention.

## 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. Avoid: Heat UV-radiation/sunlight

### Hints on joint storage

Do not store together with: Explosive substances. Highly oxidising substances Infectious substances Radioactive substances Keep away from food, drink and animal feedingstuffs.

**Storage class:** 10-13

## 7.3. Specific end use(s)

The uses are provided in Section 1.2. Other uses are not recommended unless an assessment is completed, prior to commencement of that use, which demonstrates that the use will be controlled.

# 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
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**Remark:**

none

## 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: particulates filter device (DIN EN 143).

#### 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 the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes). Only wear fitting, comfortable and clean protective clothing. Barrier creams are not substitutes for body protection.

#### 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

No information available, because for the substance no chemical safety report is required.

## SECTION 9: Physical and chemical properties

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

**Appearance:**

**Physical state:** Suspension  
**Colour:** white  
**Odour:** odourless  
**Odour threshold:** not applicable

#### Safety relevant basis data

Parameter	Value	Unit	Remark
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pH:	not determined
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	Non-combustible liquids
Evaporation rate:	not applicable
Flammability (solid, gas):	not applicable (in aqueous solution)
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:	not determined
Density:	1,4 - 1,6 g/cm <sup>3</sup>
Solubility(ies): Water :	slightly soluble
Partition coefficient: n-octanol/water:	not determined
Auto-ignition temperature:	Non-combustible liquids
Decomposition temperature:	not determined
Viscosity:	not determined
Metal corrosive properties	not determined
Oxidising properties:	Not oxidising.

## 9.2. Other information

Bulk density:	not applicable
Water solubility:	slightly soluble
Fat solubility:	insoluble
Solvent separation test:	not applicable
Solvent content:	not applicable
none	

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## 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

Fast heating of damp material due to incomplete or poor drying

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

The use of melted products and other chemicals can lead to chemical decomposition of the product.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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
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#### Skin corrosion/irritation

slightly irritant but not relevant for classification.

#### Serious eye damage/irritation

slightly irritant but not relevant for classification.

#### Respiratory or skin sensitisation

not sensitising.

#### 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

Presumed human reproductive toxicant. May damage fertility or the unborn child.

#### STOT-single exposure

The mixture is not classified as specific target organ toxicant (single exposure) within the meaning of Regulation (EC) No. 1272/2008 [GHS].

#### STOT-repeated exposure

The mixture is not classified as specific target organ toxicant (repeated exposure) within the meaning of Regulation (EC) No 1272/2008 [GHS].

#### 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
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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

There are no data available on the mixture itself.

### 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

There are no data available on the mixture itself.

## 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

Dispose of waste according to applicable legislation. 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:

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.

#### 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:**

Annex XVII, entry 30 – labeling "Restricted to professional users"

#### National regulations

Observe in addition any national regulations!

#### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

#### Other regulations, restrictions and prohibition regulations

none

### 15.2. Chemical Safety Assessment

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

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

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

##### Hazard statements

H360FD May damage fertility. May damage the unborn child.

##### Training advice

none

#### Recommended restrictions of use

Reserved for industrial and professional use. The product should only be handled by persons over the age of 18, who were informed sufficiently about the dangerous nature of the product and about the necessary

safety precautions.

**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**

none

**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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