

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

1.1. Product identifier

E1 PROCoating

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

Information telephone +49 (0) 56 57 7010

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:
Skin Irrit. 2, H315; Eye Dam. 1, H318

2.2. Label elements

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

Hazard pictograms



GHS05

Danger

Signal word:

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+352 IF ON SKIN: Wash with plenty of water/..?.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor/

P332+313 If skin irritation occurs: Get medical advice/attention.

P362+364 Take off contaminated clothing and wash it before reuse.

Special labelling of particular preparations:

none

2.3. Other hazards

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

SECTION 3: Composition / information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Mixture related information

Composition/information on ingredients

Substance:	CAS-No.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):	M, ATE, Note
Aluminum tris (dihydrogen phosphate)	13530-50-2	01-2119490078-32	5 - 10 %	Eye Dam. 1, H318	
ortho-phosphoric acid	7664-38-2		2,5 - 5 %	Met. Corr. 1, H290; Acute Tox. 4, H302; Skin Corr. 1/1A/1B/1C, H314	

(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:** 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

Causes serious eye damage.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media** Water fog. Carbon dioxide (CO₂). Foam. dry extinguishing powder.
- Unsuitable extinguishing media** Full water jet

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.

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

Avoid contact with skin and eyes.

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/Store only in original container. Always close containers tightly after the removal of product.

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.

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/m³]	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/m³]	Limitation of exposure peaks:	Remark:

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL

PNEC Value

Substance:	CAS-No.:	PNEC

Additional information

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

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. Wear suitable gloves and eye/face protection.

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: CR (polychloroprene, chloroprene rubber) NR (natural rubber, natural latex) NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber) FKM (fluoro rubber) PVC (polyvinyl chloride)

Eye/face protection

Tightly sealed safety glasses.

Body protection:

Wear suitable protective clothing.

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:	white
Odour:	odourless
Odour threshold:	No data available

Safety relevant basis data

	parameter	Value	unit	Remark
Melting point/freezing point:				No data available
Initial boiling point and boiling range:				No data available
Flammability:				not applicable
lower flammability or explosive limits:				not applicable
Upper flammability or explosive limits:				not applicable
Flash point:				No data available
Ignition temperature:				No data available
Decomposition temperature:				No data available
pH:				No data available
Kinematic viscosity:				not applicable
Water solubility (g/L):				
Partition coefficient: n-octanol/water:				not applicable
Vapour pressure:				No data available
Density:				No data available
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

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

No information available.

10.6. Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

11.1. Information on hazard classes within the meaning of Regulation (EC) No. 1272/2008

No information available.

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

Acute toxicity

Substance:	CAS-No.:	Toxicological information
ortho-phosphoric acid	7664-38-2	LD50 oral (rat) 1530 mg/kg LD50 dermal (Rabbit) 2470 mg/kg

Skin corrosion/irritation:

Not an irritant. Bridging principle "Dilution".

Serious eye damage/irritation:

Causes serious eye damage. 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:

No information available.

Aspiration hazard

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

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 information about ecology refers to the main components.

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

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

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 according to EWC / AVV

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the 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 under transport regulations.

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

No dangerous good under 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: - tunnel restriction code: -
Special provisions: - Limited quantity (LQ): -

Sea transport (IMDG)

EmS-No: -
Special provisions: - 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.
Annex XVII, entry

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.

Restrictions of occupation

Not subject to StörfallVO.

Solvents Regulation (31st BImSchV)

Annex XVII, entry

Other regulations, restrictions and prohibition regulations

none

15.2. Chemical Safety Assessment

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

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

H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.

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 storag

Documentation of changes:

Update according to current regulations

Key literature references and sources for data

Data arise from reference works and literature.

Abbreviations and acronyms

none
