

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Version: 2 Revision date: 01.06.2018

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

1.1. Product identifier

E1 PRO 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

Noltinastrasse 29

108 Tong Sheng Lu

Morgan Molten Metal Systems GmbH

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Telefax:

D 37297 Berkatal

Morgan Molten Metal Systems (Suzhou) Co. Ltd.

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Morganite Crucible (India) Ltd

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N 431 136 Waluj Aurangabad Maharashtra

Diamond Crucible Co. Ltd

Telephone: +91 (0) 2762 254 186

B-11 MIDC Telefax:

IN 384 002 Mehsana Gujarat

Morganite Brasil Ltda

Telephone: +55 (0) 11 4075-0400

Av do Taboão 3265 Telefax:

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

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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/

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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:

Eye Dam. 1, H318

2.2. Label elements

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

Hazard pictograms:

GHS05

Signal word: Danger

Hazard statements: H318 Causes serious eye damage.

Precautionary statements: P280 Wear protective gloves/protective clothing/eye

protection/face protection.

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

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rinsing.

P310 Immediately call a POISON CENTER/doctor.

Hazardous component(s) for labelling

Aluminum tris (dihydrogen phosphate)

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:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008 (CLP):
Aluminum tris (dihydrogen phosphate)	236-875-2	13530-50-2		01- 2119490078- 32	5 - 10 %	Eye Dam. 1, H318
ortho-phosphoric acid	231-633-2	7664-38-2	015-011-00-6		2,5 - 5 %	Skin Corr. 1A, H314

(Full text of H- and EUH-phrases: see section 16.)

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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

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ersist.

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 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. 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

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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.

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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)

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:
ortho-phosphoric acid	7664-38-2	AU	GESTI S Int. Grenzw erte	0	1		
		US	GESTI S Int. Grenzw erte	0	1		NIOSH
		US	GESTI S Int. Grenzw erte	0	1		OSHA
		GB	GESTI S Int. Grenzw erte	0	1		

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:
ortho-phosphoric acid	7664-38-2	EU	GESTI S Int. Grenzw erte	0	1		

DNEL-/PNEC-values

DNEL value

Substance:	CAS-No.:	DNEL/DMEL
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PNEC Value

Π	Substance:	CAS-No :	PNEC

Remark:

none

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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.

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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: 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: not applicable

Safety relevant basis data

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pH:				not determined
Melting point/freezing point:				not determined
Initial boiling point and boiling				not determined
range:				
Flash point:				not determined
Evaporation rate:				not determined
Flammability (solid, gas):				not applicable
Explosive properties:				not explosive.
Lower flammability or				not applicable
explosive limits:				
Upper flammability or				not applicable

Parameter

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Value

Unit

Remark

explosive limits:

Vapour pressure:not determinedVapour density:not determinedRelative density:not determinedDensity:not determinedSolubility(ies)::not determinedPartition coefficient:not applicable

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octanol/water:

Auto-ignition temperature:not determinedDecomposition temperature:not determinedViscosity:not applicableMetal corrosive propertiesnot determinedOxidising properties:Not oxidising.

9.2. Other information

Bulk density:not determinedWater solubility:very solubleFat solubility:practically insolubleSolvent separation test:not determinedSolvent content:not determined

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 toxicological effects

No information available.

Acute toxicity

Substance:	CAS-No.:	Toxicological information

Skin corrosion/irritation

Not an irritant. Bridging principle "Dilution".

Serious eye damage/irritation

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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".

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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".

SECTION 12: Ecological information

12.1. Toxicity

The information about ecology refers to the main components.

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

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:

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

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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:

Waste code packaging:

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):: **Classification Code:** none 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 / Marine Pollutant: yes /

14.6. Special precautions for user

Land transport (ADR/RID)

Transport category: **Tunnel restriction code:** none none Special provisions: none Limited quantity (LQ): none

Sea transport (IMDG) EmS-No: none

Special provisions: Limited quantity (LQ): none none

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

Remark: none

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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:

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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

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:

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 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

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of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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Documentation of changes

none

Key literature references and sources for data Data arise from reference works and literature.

Abbreviations and acronyms

none

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