

Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 03/02/2007

Reviewed on 03/02/2007

1 Identification of substance:

Product details:

Trade name: Rheinzink® - "preweathered pro, blue-grey"

Rheinzink® - "preweathered pro, graphite-grey"

Application of the substance / the preparation Surface protection

Manufacturer/Supplier:

RHEINZINK GmbH

Bahnhofstraße 90

45711 Datteln

fon: +49-(0)-2363-605-0

fax: +49-(0)-2363-605-209

Information department: Department protection of labour and environment protection

Emergency information:

+49-(0)-2363-605-239

+49-(0)-2363-605-430

2 Composition/Data on components:

Chemical characterization: zinc alloy with copper and titanium

CAS No. Description:

7440-66-6 zinc

Identification number(s):

EINECS Number: 231-175-3

EU Number: 030-001-00-1

3 Hazards identification

Hazard description:

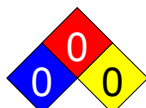
The product has not been classified and labelled in accordance with EC Directives 67/548/EEC

Information pertaining to particular dangers for man and environment not applicable

Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

NFPA ratings (scale 0-4)



Health = 0

Fire = 0

Reactivity = 0

4 First aid measures

General information

Actions are only necessary when during handling dust or smoke was created which was inhaled or swallowed.

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After inhalation Not applicable
After skin contact Not applicable
After eye contact Not applicable
After swallowing Not applicable

5 Fire fighting measures

Suitable extinguishing agents

Use fire fighting measures that suit the environment.

In case of liquid zinc at high temperatures: dry sand, special powder for metal fires.

For safety reasons unsuitable extinguishing agents

Carbon dioxide

Water with full jet.

Protective equipment:

During the work with alloys liquid: full head, face and neck protection, heat-resistant protective clothing, protective gloves, protective shoes with gaiter.

6 Accidental release measures

Person-related safety precautions: Not required.

Measures for environmental protection: No special measures required.

Measures for cleaning/collecting:

Pick up mechanically.

Dispose contaminated material as waste according to item 13.

Additional information: No dangerous substances are released.

7 Handling and storage

Handling

Information for safe handling: No special measures required.

Information about protection against explosions and fires:

The product is not flammable

Class A 1 building materials includes RHEINZINK®- "preweathered pro" as point 2.2.1 DIN 4102-4 FIRE BEHAVIOUR OF BUILDING MATERIALS AND ELEMENTS

Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

Store in dry conditions.

Protect from humidity and water.

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8 Exposure controls and personal protection

Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

CAS No.	Designation of material	%	Type	Value	Unit	Not required.
Additional information: The lists that were valid during the creation were used as basis.						

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Breathing equipment: Not required.

Protection of hands: Not required.

Material of gloves: Not applicable

Penetration time of glove material: Not applicable

Eye protection: Not required.

Body protection: Not applicable

9 Physical and chemical properties:

General Information

Form:	Solid.
Color:	Silver grey Basalt grey
Odor:	without

Change in condition

Melting point/Melting range:	420°C (788°F)
Boiling point/Boiling range:	906°C (1663°F)

Flash point:	Not applicable
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Danger of explosion:	Product does not present an explosion hazard.
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Explosion limits:

Lower:	Not applicable
Upper:	Not applicable

Vapor pressure at 487°C (909°F):	1.33 hPa (1 mm Hg)
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Density at 20°C (68°F):	7.2 g/cm ³
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Solubility in / Miscibility with

Water:	Insoluble
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Viscosity:

dynamic at 500°C (932°F):	0.0030 mPa*s
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10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Thermal decomposition above (>650°C).

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zinc oxide fumes

Materials to be avoided:



Acids and alkaline solutions.

Dangerous reactions

Contact with acids releases flammable gases

Contact with alkali releases flammable gases

Dangerous products of decomposition: No dangerous decomposition products known

11 Toxicological information

Acute toxicity:

LD/LC50 values that are relevant for classification: Not determined

Primary irritant effect:

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12 Ecological information:

General notes: Generally not hazardous for water.

13 Disposal considerations

Product:

Recommendation Contact manufacturer for recycling information.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

Maritime transport IMDG:

Marine pollutant: No

Transport/Additional information: Not dangerous according to the above specifications.

USA

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15 Regulations

SARA Section 355 (extremely hazardous substances)

Substance is not listed.

SARA Section 313 (specific toxic chemical listings)

7440-66-6 | zinc

7440-50-8 | copper

7429-90-5 | aluminium

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

Carcinogenicity categories
EPA (Environmental Protection Agency)

7440-50-8 | copper

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IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

Substance is not listed.

TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

MAK (German Maximum Workplace Concentration)

Substance is not listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

National regulations
Water hazard class: Generally not hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing MSDS: Department protection of labour and environment protection

Contact: +49-(0)-2363-605-239