

HOT PIPE COATING

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name: HOT PIPE COATING
Synonyms: none

CAS No.	: N.A.	NFPA code	: N.D.
EC index No.	: N.A.	Molecular weight	: N.A.
EINECS No.	: N.A.	Formula	: N.A.
RTECS No.	: N.A.		

1.2 Use of the substance or the preparation:

Coating

1.3 Company/undertaking identification:

Superior Coatings & Concrete Trading
 Singel 12A
 NL-7411 HV Deventer
 Tel. : +31 570 67 29 71
 Fax : +31 570 67 03 43
 Email: info@sc2trading.com

1.4 Telephone number for emergency:

See 1.3

2. Composition/information on ingredients

Hazardous ingredients	CAS No. EINECS/ELINCS No.	Conc. in %	Hazard symbol	Risks (R-phrases)
hexaboron dizinc undecaoxide, heptahydrate	138265-88-0 235-804-2	67	N	51/53 (1)
mica	12001-26-2 310-127-6	3	-	-
polyacrylic acid	9003-01-4	20	-	-

(1) For R-phrases in full: see heading 16

3. Hazards identification

- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

4. First aid measures

4.1 Eye contact:

- Rinse immediately with water
- Take victim to an ophthalmologist if irritation persists

4.2 Skin contact:

- Rinse with water
- Soap may be used
- Take victim to a doctor if irritation persists

4.3 After inhalation:

- Remove the victim into fresh air
- Respiratory problems: consult a doctor/medical service

4.4 After ingestion:

- Rinse mouth with water
- Consult a doctor/medical service if you feel unwell

Printing date	: 04-2007		1/7
Compiled by	: Brandweerinformatiecentrum voor Gevaarlijke Stoffen vzw (BIG)		
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MSDS established	: 03-04-2007	Revised on	:
Reference number	: BIG\44707GB	Revision number	: 000
Reason for revision	:		

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5. Fire-fighting measures

5.1 Suitable extinguishing media:

- Water
- Water spray
- Polyvalent foam
- BC powder
- Carbon dioxide

5.2 Unsuitable extinguishing media:

- No data available

5.3 Special exposure hazards:

- Upon combustion CO and CO₂ are formed

5.4 Instructions:

- Take account of environmentally hazardous firefighting water
- Use firefighting water moderately and contain it

5.5 Special protective equipment for firefighters:

- Heat/fire exposure: compressed air/oxygen apparatus
- Protective clothing for exposure to chemicals

6. Accidental release measures

6.1 Personal protection/precautions:

See heading 8.2/13

6.2 Environmental precautions:

- Prevent soil and water pollution
- Prevent spreading in sewers
- Contain released substance, pump into suitable containers
- Plug the leak, cut off the supply
- Dam up the liquid spill

6.3 Methods for cleaning up:

- Take up liquid spill into absorbent material, e.g.: sand
- Scoop absorbed substance into closing containers
- Carefully collect the spill/leftovers
- Clean contaminated surfaces with an excess of water
- Wash clothing and equipment after handling

7. Handling and storage

7.1 Handling:

- Observe normal hygiene standards
- Do not discharge the waste into the drain

7.2 Storage:

- Keep container tightly closed
- Store in a cool area
- Provide for a tub to collect spills
- Meet the legal requirement.
- Keep away from: heat sources, acids, bases

Storage temperature	: < 50	°C
Quantity limits	: N.D.	kg
Storage life	: N.D.	days
Materials for packaging	:	
- suitable	: synthetic material	
- to avoid	: no data available	

7.3 Specific uses:

- See information supplied by the manufacturer

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8. Exposure controls/Personal protection

8.1 Exposure limit values:

hexaboron dizinc undecaoxide, heptahydrate

TLV-TWA	: 2 I	mg/m ³	ppm
TLV-STEL	: 6 I	mg/m ³	ppm

mica

TLV-TWA	: 3 R	mg/m ³	ppm
TLV-STEL	: -	mg/m ³	ppm

WEL-LTEL	: 0.8 R/10 I	mg/m ³	-	ppm
WEL-STEL	: -	mg/m ³	-	ppm

polyacrylic acid

MAK	: 0.05 A	mg/m ³	ppm
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MAC-TGG 8 h	: 0.05 R	mg/m ³	
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Sampling methods:

- Zinc & Cpds (as Zn)
- Mica

NIOSH 7030
OSHA ID 142

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

8.2.1.1 Respiratory protection:

- Wear gas mask with filter type A if conc. in air > exposure limit
- Respiratory protection not required in normal conditions

8.2.1.2 Hand protection:

- Gloves
Suitable materials: No data available
- Breakthrough time: N.D.

8.2.1.3 Eye protection:

- Safety glasses

8.2.1.4 Skin protection:

- Protective clothing
Suitable materials: No data available

8.2.2 Environmental exposure controls: see heading 13

9. Physical and chemical properties

9.1 General information:

Appearance (at 20°C)	: Liquid
Odour	: Characteristic
Colour	: White

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9.2 Important health, safety and environmental information:

pH value	: 8	
Boiling point/boiling range	: 192	°C
Flashpoint	: > 100	°C
Explosion limits	: N.D.	vol%
Vapour pressure (at 20°C)	: 23	hPa
Vapour pressure (at 50°C)	: N.D.	hPa
Relative density (at 20°C)	: 0.72	
Water solubility	: Soluble	
Soluble in	: N.D.	
Relative vapour density	: 2.1	
Viscosity	: N.D.	Pa.s
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: 0	°C
Auto-ignition point	: N.D.	°C
Saturation concentration	: N.D.	g/m ³

10. Stability and reactivity

10.1 Conditions to avoid:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources, acids, bases

10.3 Hazardous decomposition products:

- Upon combustion CO and CO₂ are formed

11. Toxicological information

11.1 Acute toxicity:

hexaboron dizinc undecaoxide, heptahydrate

LD50 oral rat : 10000 mg/kg
LD50 dermal rabbit : 10000 mg/kg

mica

LD50 oral rat : > 5000 mg/kg

polyacrylic acid

LD50 oral rat : 2500 mg/kg

11.2 Chronic toxicity:

EC carc. cat. : not listed
EC muta. cat. : not listed
EC repr. cat. : not listed

Carcinogenicity (TLV) : A4 (hexaboron dizinc undecaoxide, heptahydrate)
Carcinogenicity (MAC) : not listed
Carcinogenicity (VME) : not listed
Carcinogenicity (GWBB) : not listed

Carcinogenicity (MAK) : 4 (polyacrylic acid)
Mutagenicity (MAK) : not listed
Teratogenicity (MAK) : C (polyacrylic acid)

IARC classification : 3 (polyacrylic acid)

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11.3 Routes of exposure: ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

- AFTER SKIN CONTACT
- Slight irritation
- AFTER EYE CONTACT
- Slight irritation

11.5 Chronic effects:

- Contains a substance of group C (MAK-Schwangerschaftsgruppe)
- Not listed in carcinogenicity class (IARC, EC, TLV, MAK)
- Not listed in mutagenicity class (EC, MAK)

12. Ecological information

12.1 Ecotoxicity:

hexaboron dizinc undecaoxide, heptahydrate:

- LC50 (96 h) : 2.4 mg/l (SALMO GAIARDNERI/ ONCORHYNCHUS MYKISS)
- LC50 (48 h) : 76 mg/l (DAPHNIA MAGNA)

polyacrylic acid:

- LC50 (96 h) : 580/2000 mg/l (LEPOMIS MACROCHIRUS)
- LC50 (96 h) : 168/280 mg/l (DAPHNIA MAGNA)

12.2 Mobility:

- Volatile organic compounds (VOC): 0%
- Soluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- biodegradation BOD₅ : N.D. % ThOD
- water : - No data available
- soil : T ½: N.D. days

12.4 Bioaccumulative potential:

- log P_{ow} : N.D.
- BCF : N.D.

12.5 Other adverse effects:

- WGK : 2 (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 17 May 1999)
- Effect on the ozone layer : Not dangerous for the ozone layer (1999/45/EC)
- Greenhouse effect : no data available
- Effect on waste water purification : no data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Waste material code (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 08 01 11* (waste paint and varnish containing organic solvents or other dangerous substances)
- Hazardous waste (91/689/EEC)

13.2 Disposal methods:

- Recycle/reuse

13.3 Packaging/Container:

- Waste material code packaging (91/689/EEC, Council Decision 2001/118/EC, O.J. L47 of 16/2/2001): 15 01 10* (packaging containing residues of or contaminated by dangerous substances)

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14. Transport information

90
3082

14.1 Classification of the substance in compliance with UN Recommendations

UN number : 3082
CLASS : 9
SUB RISKS : -
PACKING : III
PROPER SHIPPING NAME :
UN 3082, Environmentally hazardous substance, liquid, n.o.s. (hexaboron
dizinc undecaoxide, heptahydrate)

14.2 ADR (transport by road)

CLASS : 9
PACKING : III
CLASSIFICATION CODE : M6
DANGER LABEL TANKS : 9
DANGER LABEL PACKAGES : 9

14.3 RID (transport by rail)

CLASS : 9
PACKING : III
CLASSIFICATION CODE : M6
DANGER LABEL TANKS : 9
DANGER LABEL PACKAGES : 9

14.4 ADN (transport by inland waterways)

CLASS : 9
PACKING : III
CLASSIFICATION CODE : M6
DANGER LABEL TANKS : 9
DANGER LABEL PACKAGES : 9

14.5 IMDG (maritime transport)

CLASS : 9
SUB RISKS : -
PACKING : III
MFAG : -
EMS : F-A, S-F
MARINE POLLUTANT : -

14.6 ICAO (air transport)

CLASS : 9
SUB RISKS : -
PACKING : III
PACKING INSTRUCTIONS PASSENGER AIRCRAFT : 914/Y914
PACKING INSTRUCTIONS CARGO AIRCRAFT : 914

14.7 Special precautions in connection with transport

: none

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15. Regulatory information

15.1 EU legislation:

Classification according to directives 67/548/EEC and 1999/45/EC



Dangerous for the environment

- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
- S61 : Avoid release to the environment. Refer to special instructions/safety data sheets.

15.2 National provisions:

The Netherlands:
Waterbezwaarlijkheid: 6

16. Other information

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

- N.A.** = NOT APPLICABLE
N.D. = NOT DETERMINED
(*) = INTERNAL CLASSIFICATION (NFPA)

Exposure limits:

- TLV** : Threshold Limit Value - ACGIH USA
WEL : Workplace Exposure Limits - United Kingdom
MAK : Maximale Arbeitsplatzkonzentrationen - Germany
MAC : Maximale aanvaarde concentratie - The Netherlands
VME : Valeurs limites de Moyenne d'Exposition - France
VLE : Valeurs limites d'Exposition à court terme - France
GWBB : Grenswaarde beroepsmatige blootstelling - Belgium
GWK : Grenswaarde kortstondige blootstelling - Belgium
EC : Indicative occupational exposure limit values - directive 2000/39/EC
- I** : Inhalable fraction = **T**: Total dust = **E**: Einatembarer Aerosolanteil
R : Respirable fraction = **A**: Alveolengängiger Aerosolanteil/Alveolar dust
C : Ceiling limit

- | | | | | |
|------------|------------------|--------------|-------------------|------------|
| a: | aerosol | r: | rook/Rauch | (fume) |
| d: | damp (vapour) | st: | stof/Staub | (dust) |
| du: | dust | ve: | vezel | (fibre) |
| fa: | Faser (fibre) | va: | vapour | |
| fi: | fibre | om: | oil mist | |
| fu: | fume | on: | olienevel/Ölnebel | (oil mist) |
| p: | poussière (dust) | part: | particles | |

Chronic toxicity:

- K** : List of the carcinogenic substances and processes - The Netherlands

Full text of any R-phrases referred to under heading 2:

- R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
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