

**KBS® Coating**

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1.0	02.10.2020	000000494984	Date of first issue: 02.10.2020

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**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : KBS® Coating  
Product code : 000000000050209618

**Manufacturer or supplier's details**

Company : Wolman Wood and Fire Protection GmbH  
Address : Dr.-Wolman-Strasse 31-33  
Sinzheim 76547  
Telephone : +4972218000  
Emergency telephone : ChemTel: +1-813-248-0585  
Telefax : +497221800290

**Recommended use of the chemical and restrictions on use**

Recommended use : Product for construction chemicals

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**2. HAZARDS IDENTIFICATION****GHS Classification**

Hazardous to the aquatic environment - acute hazard : Category 3

**GHS label elements**

Hazard pictograms : None  
Signal Word : None  
Hazard Statements : H402 Harmful to aquatic life.

Precautionary Statements : **Prevention:**  
P273 Avoid release to the environment.  
**Disposal:**  
P501 Dispose of contents/container to appropriate hazardous waste collection point.

**Other hazards which do not result in classification**

No specific dangers known, if the regulations/notes for storage and handling are considered.  
The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.  
If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature : dispersion

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Fillers  
glass fibres  
in water

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
tris(2-chloro-1-methylethyl)phosphate	13674-84-5	>= 3 - < 5
Boron zinc hydroxide oxide (B12Zn4(OH)14O15)	138265-88-0	>= 1 - < 2,3

**4. FIRST AID MEASURES**

- General advice : Remove contaminated clothing.  
Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Keep patient calm, remove to fresh air.
- In case of skin contact : Wash thoroughly with soap and water
- In case of eye contact : Wash affected eyes for at least 15 minutes under running water with eyelids held open.
- If swallowed : Keep respiratory tract clear.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.  
Do not induce vomiting unless told to by a poison control center or doctor.
- Most important symptoms and effects, both acute and delayed : None known.
- Notes to physician : Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Not applicable
- Unsuitable extinguishing media : not applicable
- Specific hazards during fire fighting : In case of fire hazardous decomposition products may be produced such as:  
Evolution of fumes/fog.
- Hazardous combustion products : harmful vapours  
carbon oxides
- Specific extinguishing methods : Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.  
The degree of risk is governed by the burning substance and the fire conditions.  
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Prevent fire extinguishing water from contaminating surface

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Special protective equipment for fire-fighters : water or the ground water system.  
Wear self-contained breathing apparatus for firefighting if necessary.

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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures : Use personal protective clothing.  
Information regarding personal protective measures, see section 8.  
High risk of slipping due to leakage/spillage of product.

Environmental precautions : Do not discharge into drains/surface waters/groundwater.  
  
Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Pick up with suitable appliance and dispose of.  
Dispose of absorbed material in accordance with regulations.

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**7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : The product is neither self-ignitable, nor an explosion hazard, nor does it promote fires.  
No special precautions necessary.  
  
Normal measures for preventive fire protection.

Advice on safe handling : No special measures necessary provided product is used correctly.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Keep only in the original container.  
Store protected against freezing.  
Keep container tightly closed and dry; store in a cool place.

Materials to avoid : Segregate from foodstuffs.

Recommended storage temperature : 5 - 40 °C

Further information on storage stability : No decomposition if stored and applied as directed.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

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**Engineering measures** : Do not empty waste into waste water drains.  
No further information, see section 7.

**Personal protective equipment**

Respiratory protection : Respiratory protection in case of vapour/aerosol release.  
Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)

Hand protection

Remarks : Chemical resistant protective gloves (EN 374)  
The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection : Body protection must be chosen based on level of activity and exposure.

Protective measures : Handle in accordance with good industrial hygiene and safety practice.  
Wearing of closed work clothing is recommended.

Hygiene measures : Store work clothing separately.  
No eating, drinking, smoking or tobacco use at the place of work.  
Hands and/or face should be washed before breaks and at the end of the shift.  
Wash hands before breaks and at the end of workday.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : paste, highly viscous

Color : white

Odor : faint odour

pH : 7,5 - 8,5 (20 °C)  
Method: no information

Freezing point : approx. 0 °C  
(for a component of this mixture)

Boiling point : approx. 100 °C  
(for a component of this mixture)

Flash point : Aqueous solution

Evaporation rate : not determined

Flammability (solid, gas) : not flammable

Upper explosion limit / Upper flammability limit : For liquids not relevant for classification and labelling.

Lower explosion limit / Lower flammability limit : For liquids not relevant for classification and labelling.

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Vapor pressure	:	contains water
Relative vapor density	:	not determined
Density	:	1,4 - 1,5 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	partly miscible
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	Based on the water content the product does not ignite.
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Temperature of polymerization (SAPT)	:	Study scientifically not justified.
Viscosity		
Viscosity, dynamic	:	approx. 40.000 - 60.000 mPa.s
Explosive properties	:	Not explosive
Oxidizing properties	:	not fire-propagating
Metal corrosion rate	:	No data available.

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**10. STABILITY AND REACTIVITY**

Reactivity	:	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	:	No decomposition if stored and applied as directed. The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. No hazardous reactions if stored and handled as prescribed/indicated. No decomposition if stored and applied as directed.
Conditions to avoid	:	See SDS section 7 - Handling and storage. See SDS section 7 - Handling and storage.
Incompatible materials	:	None known during use and storage if used according to instructions.
Hazardous decomposition products	:	No hazardous decomposition products known.

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**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

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**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks : The product has not been tested. The statement has been derived from the properties of the individual components.

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**12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Components:****Boron zinc hydroxide oxide (B<sub>12</sub>Zn<sub>4</sub>(OH)<sub>14</sub>O<sub>15</sub>):**

Toxicity to fish : LC<sub>50</sub> (Rainbow trout): 2,4 mg/l  
Exposure time: 96 h  
Test Type: other

LC<sub>50</sub> (sunfish, bluegill): > 335 mg/l  
Exposure time: 96 h

LC<sub>50</sub> (Rainbow trout): 0,452 mg/l

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Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna): 76 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

**Persistence and degradability**

No data available

**Bioaccumulative potential****Components:****tris(2-chloro-1-methylethyl)phosphate:**

Partition coefficient: n-octanol/water : log Pow: 3,33 (20 °C)  
Method: Partition coefficient

**Boron zinc hydroxide oxide (B12Zn4(OH)14O15):**

Bioaccumulation : Remarks: Does not significantly accumulate in organisms. Because of the product's consistency and low water solubility, bioavailability is improbable. Under environmental conditions, the substance will almost completely be in its charged form.

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.

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**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Observe national and local legal requirements. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging : Packs that cannot be cleaned should be disposed of in the same manner as the contents. Uncontaminated packaging can be re-used.

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Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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**16. OTHER INFORMATION****Further information**

Other information : Any other intended applications should be discussed with the manufacturer.  
Corresponding occupational protection measurements must be followed.

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median



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Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet 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 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 materials or in any process, unless specified in the text.

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