

## KBS COATING BRUSHABLE

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1.0	27.08.2021	000000494985	Date of first issue: 27.08.2021

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**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : KBS COATING BRUSHABLE

**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 : Fire Prevention

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

Short-term (acute) aquatic 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.  
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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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

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Chemical nature : dispersion  
in water

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
tris(2-chloro-1-methylethyl)phosphate	13674-84-5	>= 1 -< 10
Boron zinc hydroxide oxide (B12Zn4(OH)14O15)	138265-88-0	>= 1 -< 2,5

**SECTION 4. FIRST AID MEASURES**

General advice : Remove contaminated clothing.

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 : Rinse mouth and then drink 200-300 ml of water.

Most important symptoms and effects, both acute and delayed : None known.

Notes to physician : Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media : Not applicable

Unsuitable extinguishing media : Not applicable

Specific hazards during fire fighting : Product is not combustible or explosive.  
No particular hazards known.

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.

Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protection : Use personal protective clothing.

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- tive equipment and emergency procedures      Information regarding personal protective measures, see section 8.  
Avoid contact with skin and eyes.
- Environmental precautions      :      Do not discharge into drains/surface waters/groundwater.
- Methods and materials for containment and cleaning up      :      Large spills should be collected mechanically (remove by pumping) for disposal.  
Dam up.  
Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).  
Dispose of absorbed material in accordance with regulations.

**SECTION 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.
- Advice on safe handling      :      No special measures necessary provided product is used correctly.
- Hygiene measures      :      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.  
Store work clothing separately.
- Further information on storage conditions      :      Keep only in the original container.  
Store protected against freezing.
- Materials to avoid      :      Segregate from foodstuffs.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
aluminium hydroxide	21645-51-2	TWA (Respirable particulate matter)	1 mg/m <sup>3</sup> (Aluminum)	ACGIH
Glass, oxide, chemicals	65997-17-3	TWA (inhalable dust)	2 mg/m <sup>3</sup>	AU OEL
	Further information: Category 1B (Carc. 1B) Presumed to have carcinogenic potential for humans			
		TWA (Respirable)	0,5 fibres per millilitre	AU OEL
	Further information: Category 1B (Carc. 1B) Presumed to have carcinogenic potential for humans			
		TWA (inhal-	2 mg/m <sup>3</sup>	AU OEL

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		able dust)		
	Further information: Category 2 (Carc. 2) Suspected human carcinogen			
		TWA (inhalable dust)	2 mg/m3	AU OEL
	Further information: Category 2 (Carc. 2) Suspected human carcinogen			
		TWA (inhalable dust)	2 mg/m3	AU OEL
	Further information: Category 2 (Carc. 2) Suspected human carcinogen			
		TWA value (Inhalable fraction)	5 mg/m3	ACGIHTLV
		TWA value (Fiber)	0.5 fibers/ml	OEL (AU)
		TWA value	0.5 fibers/ml	OEL (AU)
		TWA value (Fiber)	0.5 fibers/ml	OEL (AU)
		TWA value (Fiber)	1 fibers/cm <sup>3</sup>	ACGIHTLV
		TWA value (Fiber)	0.2 fibers/cm <sup>3</sup>	ACGIHTLV
		TWA (fibers)	1 fibres per cubic centimeter	ACGIH
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (fibers)	1 fibres per cubic centimeter	ACGIH
		TWA (fibers)	1 fibres per cubic centimeter	ACGIH
Cellulose	9004-34-6	TWA	10 mg/m3	AU OEL
		TWA value	10 mg/m3	ACGIHTLV
		TWA value (Inhalable fibers)	10 mg/m3	AU NOEL
		TWA value (Inhalable dust)	10 mg/m3	OEL (AU)
		TWA	10 mg/m3	ACGIH
Boron zinc hydroxide oxide (B12Zn4(OH)14O15)	138265-88-0	TWA (Inhalable particulate matter)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhalable particulate matter)	6 mg/m3 (Borate)	ACGIH

**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.

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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)

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.

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : dispersion, liquid

Color : whitish

Odor : slight odour

pH : ca. 8 (20 °C)

Freezing point : not determined

Boiling point : approx. 100 °C

Flash point : Not applicable Aqueous solution

Evaporation rate : Value can be approximated from Henry's Law Constant or vapor pressure.

Flammability (solid, gas) : Based on the structure or composition there is no indication of flammability

Self-ignition : Based on its structural properties the product is not classified as self-igniting.

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.

Vapor pressure : Not applicable

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Relative vapor density	:	No data available.
Density	:	ca. 1,4 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	completely 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 pre- scribed/indicated.
Temperature of polymeriza- tion (SAPT)	:	Study scientifically not justified.
Viscosity Viscosity, dynamic	:	ca. 60.000 mPa.s ( 20 °C)
Explosive properties	:	Based on the chemical structure there is no indication of ex- plosive properties.
Oxidizing properties	:	Based on its structural properties the product is not classified as oxidizing.
Metal corrosion rate	:	No data available.

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**SECTION 10. STABILITY AND REACTIVITY**

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

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

Not classified based on available information.

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**Skin corrosion/irritation**

Not classified based on available information.

**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.

**Chronic toxicity****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.

**Product:**

No data available.

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

Acute aquatic toxicity : Harmful to aquatic life.

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

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

M-Factor (Acute aquatic toxicity) : 1

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**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.

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

Waste from residues : Observe national and local legal requirements.

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

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

**IATA-DGR**

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Packing instruction (cargo aircraft) : Not applicable  
Packing instruction (passenger aircraft) : Not applicable

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ger aircraft)

**IMDG-Code**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
EmS Code : Not applicable  
Marine pollutant : Not applicable

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

Not applicable for product as supplied.

**Domestic regulation****ASIA\_ROAD**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable  
Hazchem Code : Not applicable

**Special precautions for user**

Not applicable

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**SECTION 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.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not Scheduled

Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

**The ingredients of this product are reported in the following inventories:**

AIC : On the inventory, or in compliance with the inventory

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

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

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIHTLV : American Conference of Governmental Industrial Hygienists - threshold limit values (US)  
AU NOEL : National Workplace OELs, Workplace Exposure Standards for Airborne Contaminants (Australia)  
AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.  
OEL (AU) : Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment (Australia)

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
ACGIHTLV / TWA value : Time Weighted Average (TWA):  
AU NOEL / TWA value : Time Weighted Average (TWA):  
AU OEL / TWA : Exposure standard - time weighted average  
OEL (AU) / TWA value : Time Weighted Average (TWA):

AIIC - Australian Inventory of Industrial Chemicals; 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 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; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recom-

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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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