



Safety data sheet
according to 1907/2006/EC, Article 31

Version number: 1532420

Revision: 02.12.2022

Printing date: 02.12.2022

01 Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
 - Trade name:
POLYFLEX PES-30 metallic bonded smooth Corona abrasion resistant interior silk-gloss
 - Article number:
13104
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Application of the substance / the preparation
Coating material for powder coating
 - Uses advised against
All other uses.
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
Karl Bubenhofer AG
Hirschenstrasse 26
CH-9201 Gossau SG
Telephone: +41 (0)71/387 41 41, Telefax: +41 (0)71/387 41 51
Contact for information (office hours): Regulatory Affairs,
Dr. Christina Ott, Telephone: +41 (0)71/387 41 35,
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E-mail: ott.christina@kabe-farben.ch
- Sales Organization in Germany:
KABE Pulverlack Deutschland GmbH Sofienstrasse 36 D-76676 Graben-Neudorf Telephone: +49(0)7255 99-161, Telefax:
+49(0)7255 99-163 (office hours)
- Sales Organization in Austria:
KABE-Farben GmbH Langegasse 31 A-6850 Dornbirn Telephone (office hours): +43 (0)5572-21568 Telefax: +43 (0)5572-20946
- Sales Organization in Poland:
Farby KABE Polska Sp. z o.o., ul. Slaska 88 40-742 Katowice Tel. +48 32 204 64 60, fax +48 32 204 64 66, (office hours)
proszkowie@farbykabe.pl
- 1.4 Emergency telephone number
Switzerland: Tox Info Swiss, Telephone: +41 (0)44/251 66 66 Germany: Poisoning emergencies Berlin: +49(0)30-19240 Austria:
Poisoning emergencies: +43 (0)1/4064343 Polen: National Poison Information Centre and Clinical Department of Toxicology:
+48(42)6579900

02 Hazards identification

- 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008
Void
- 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008
 - Hazard pictograms
Void
 - Signal word
Void
- Hazard statements
EUH208 Contains zinc-di(benzothiazol-2-yl)disulphide. May produce an allergic reaction.
EUH210 Safety data sheet available on request.
- 2.3 Other hazards
Product can generate hydrogen with substances containing water like acids or bases (risk of explosion).
The preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.
- Results of PBT and vPvB assessment
 - PBT:
Not applicable.
 - vPvB:
Not applicable.

03 Composition/information on ingredients

- 3.2 Chemical characterization: Mixtures
- Hazardous components:

CAS Number		%
155-04-4	zinc-di(benzothiazol-2-yl)disulphide	0,05 - <1
	EC number: 205-840-3	
	Record number 01-2119493020-50	
	Skin Sens. 1 - H317; Aquatic	

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Acute 1 - H400, Aquatic Chronic 1 - H410

- Additional information:
For the wording of the listed risk phrases refer to section 16.

04 First aid measures

- 4.1 Description of first aid measures
- General information:
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
In case of unconsciousness place patient stably in side position for transportation.
- After inhalation:
Supply fresh air or oxygen; call for doctor.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Call a doctor immediately.
- After eye contact:
Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing:
Do not induce vomiting; call for medical help immediately.
Rinse out mouth and then drink plenty of water.
- Information for doctor:
- 4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

05 Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:
Extinguishing powder, alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents:
Full water jet, inert gas under high pressure (e.g. carbon dioxide)
- 5.2 Special hazards arising from the substance or mixture
Fire will produce dense black smoke. Inhalation of decomposition or combustion products can cause serious damage to health. Cool closed containers with sprayed water fog. Do not allow run-off from fire fighting to enter soil, drains, surface or ground water.
- 5.3 Advice for firefighters
Wear autonomous breathing equipment and chemical protection suit.
- Protective equipment:
No special measures required.

06 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
Avoid generation of dust and keep away from ignition sources. Do not inhale dust. Observe safety regulations (see chapters 7 and 8).
- 6.2 Environmental precautions:
Do not allow to enter soil, drains, surface or ground water. In case of contamination, notify the responsible authorities according to the local laws.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

07 Handling and storage

- 7.1 Precautions for safe handling
Avoid formation of inflammable and explosive dust/air mixtures and do not exceed upper toxic limits. The material can become electrostatically charged: on reloading use only pipes that are earthed. It is recommended to wear antistatic clothing and shoes. Floors should be of the conducting type. Keep away from all ignition sources. Do not eat, drink or smoke on the job. For personal protective equipment, see chapter 8.
During stoving/curing caprolactam will be released. Efficient oven extraction must be provided to discharge caprolactam from the work-place.
- 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:

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Observe national regulations. Store in a dry place and not above 25°C. Protect against heat and direct sunshine. Containers which are opened must be carefully resealed and kept upright. Observe label precautions. Provide good ventilation.

- Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

Do not store together with oxidising and acidic materials.

- Further information about storage conditions:

None.

- 7.3 Specific end use(s)

No further relevant information available.

08 Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

Not required.

- Additional information:

The lists valid during the making were used as basis.

MAK: general dust limit 1,25 mg/m³ (A), 10 mg/m³ (E)

- 8.2 Exposure controls

Provide good ventilation by means of suitable local or centralized aspiration equipment. If these are not sufficient to maintain exposure to dusts below the exposure limits, suitable respiratory protection must be worn.

- Personal protective equipment:

- General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: In cases where the occupational exposure limit is exceeded, use the "A/P2" combination filter to protect against organic vapours and gases and against solid/liquid particles of hazardous substances (EN 141).

- Protection of hands: Chemical-resistant protective gloves (in line with EN374) with long sleeves. The choice of quality and penetration time depends on the specific workplace conditions and must therefore be made in consultation with the glove manufacturer. Instructions on use, storage, care and replacement of gloves must be adhered to. Gloves designed to protect against mechanical risks are not suitable. Use hand cream as a protective skin care measure. Avoid contact with eyes and skin. Immediately wash any areas which have come into contact with the preparation.

- Eye protection: Wear safety goggles which offer all-round protection of the eyes (EN 166).

- Body protection: Wear antistatic protective clothing. Care should be taken in the selection of protective clothing to ensure that inflammation or irritation of the skin at neck and wrists through contact with the powder is avoided.

- Risk management measures

Workers must receive adequate information and instruction.

09 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form:	Powder
Colour:	According to product specifica
Odour:	Weak, characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.

Change in condition

Initial boiling point and boiling range:	Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Ignition temperature:	Dust/air mixture 450-600°C (tested according to VDE 2263)
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Not determined.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Dust/air mixture 50 - 90 g/m ³ (tested according to VDI 2263, ISO 6184)
Upper:	Not determined.

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*	Vapour pressure:	Not determined.
	Density:	1,3900 g/cm ³
	Vapour density	Not determined.
	Evaporation rate	Not determined.
	Solubility in / Miscibility with water:	Insoluble.
	Partition coefficient: n-octanol/water:	Not determined.
	Viscosity:	
	Dynamic:	Not applicable.
	Kinematic:	Not determined.
	9.2 Other information	
9.2 Additional information	Not available.	

10 Stability and reactivity

- 10.1 Reactivity
No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
Risk of dust explosion if enriched with fine dust in the presence of air.
- 10.4 Conditions to avoid
No further relevant information available.
- 10.5 Incompatible materials:
Water and hydrous substances.
- 10.6 Hazardous decomposition products:
At high temperatures, hazardous products are generated, such as carbon monoxide, carbon dioxide, nitrogen oxides and smoke.

11 Toxicological information

- 11.1 Information on toxicological effects
For this product experimental data are not available.
- Acute toxicity
- LD/LC50 values relevant for classification:
155-04-4 zinc-di(benzothiazol-2-yl)disulphide
Oral, LD50: 7500 mg/kg (rat) Dermal, LD50: >7940 mg/kg (Rabbit)
- Primary irritant effect:
- Skin corrosion/irritation
Powder coatings can cause local skin irritation.
- Serious eye damage/irritation
No irritating effect.
- Respiratory or skin sensitisation
Allergic persons and employees with respiratory complaints should not work with powder coatings.
- Additional toxicological information:
The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
- Repeated dose toxicity
This preparation contains low molecular epoxy constituents, which are irritating to eyes, mucous membrane and skin. Repeated contact can have a sensitizing action. Skin contact with the preparation and exposure to spray mist and vapour should be avoided. Symptoms of poisoning may arise only after several hours, therefore medical observation should be maintained for at least 48 hours. In case of unconsciousness, lay in the recovery position, do not give anything by mouth.
- 11.2 Information on other hazards
- Endocrine disrupting properties
None of the ingredients is listed.

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12 Ecological information

- 12.1 Toxicity
Experimental data are not available for this product. Do not allow to enter the soil, water, groundwater or the drains.
- Aquatic toxicity:
155-04-4 zinc-di(benzothiazol-2-yl)disulphide
LC50/96h: 0.73 mg/l (fish) LC50/48h: 0.71 mg/l (daphnie) LD50/72h: 0.5 mg/l (alga)
- 12.2 Persistence and degradability
No further relevant information available.
- Behaviour in environmental systems:
- 12.3 Bioaccumulative potential
No further relevant information available.
- 12.4 Mobility in soil
No further relevant information available.
- Additional ecological information:
- General notes:
Water hazard class (CH): Meets water hazard class EC.
Water hazard class 1 EC (Assessment by list): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.
- 12.5 Results of PBT and vPvB assessment
- PBT:
Not applicable.
- vPvB:
Not applicable.
- 12.6 Other adverse effects
No further relevant information available.

13 Disposal considerations

- 13.1 Waste treatment methods
- Recommendation
Disposal according to local regulations. Return of split quantities and remaining, or expired products at a public recycling center for hazardous waste. Also observe the ordinances on movements of waste (OMW) in Switzerland and the Lists of handling waste and European Waste Catalogue (EWC). Switzerland: Empty containers and old paints can be returned to KABE Farben in specific containers. Request our brochure for details.
- European waste catalogue/Waste code switzerland
08
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF
COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS
AND PRINTING INKS
08 02
wastes from MFSU of other coatings (including ceramic materials)
08 02 01
waste coating powders
- Uncleaned packaging:
- Recommendation:
Disposal must be made according to official regulations.

14 Transport information

- 14.1 UN-Number
ADR Void
IMDG Void
IATA Void
- 14.2 UN proper shipping name
ADR Void
IMDG Void
IATA Void
- 14.3 Transport hazard class(es)
ADR
Class Void
IMDG
Class Void
IATA

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Class Void

- 14.4 Packing group

ADR Void

IMDG Void

IATA Void

- 14.5 Environmental hazards:
Not applicable.
- 14.6 Special precautions for user
Not applicable.
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II
None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII
Conditions of restriction: 40
- National regulations:
- Waterhazard class:
Water hazard class 1 (Assessment by list): slightly hazardous for water.
- 15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16 Other information

The information in this safety data sheet correspond the present state of our knowledge. We have, however, no knowledge of or control over the working conditions of the user. The product may not be used for purposes other than those stated in chapter 1 without prior written consent. The user is responsible for compliance with all necessary legal regulations. The information in this safety data sheet describes the safety requirements for our product and does not represent a guarantee of product properties.

- Relevant phrases
H317 May cause an allergic skin reaction.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
- * Data compared to the previous version altered.