

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

- 1.1 Product identifier
- Trade name:
POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35
- Article number:
11607
- 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,
Telefax: +41 (0)71/387 43 04
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) proszkowe@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
Eye Irrit. 2 - H319 Causes serious eye irritation.
Skin Sens. 1 - H317 May cause an allergic skin reaction.
Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.
- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS07

- Signal word
Warning
- Hazard-determining components of labelling:
reaction mass of bis(2,3-epoxypropyl)terephthalate and tris(oxiranylmethyl)benzene-1,2,4-tricarboxylate / zinc-di(benzothiazol-2-yl)disulphide
- Hazard statements
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves.
P280 Wear eye protection / face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see on this label).
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.
- 2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT:

(Contd. on page 2)



Version number: 1279917

Revision: 05.06.2022

Printing date: 05.06.2022

PRODUCT : POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35

(Contd. of page 1)

- Not applicable.
- vPvB:
Not applicable.

03 Composition/information on ingredients

- 3.2 Chemical characterization: Mixtures

- Hazardous components:

CAS Number		%
	reaction mass of bis(2,3-epoxypropyl)	1 - <5
	terephthalate and tris(oxiranylmethyl)	
	benzene-1,2,4-tricarboxylate	
	EC number: 940-592-6	
	Record number 01-2120065788-39	
	Repr. 2	
	☞ Eye Dam. 1 - H318; ☞ Acute Tox. 4	
	- H302, Skin Irrit. 2 - H315, Skin Sens. 1 -	
	H317; ☞ Repr. 2 - H361, STOT RE 2 -	
	H373; ☞ Aquatic Chronic 2 - H411	
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	
	Chronic 1 - H410	
77-99-6	propylidynetrimethanol	0,05 - <1
	EC number: 201-074-9	
	Record number 01-2119486799-10	
	Repr. 2	
	☞ Repr. 2 - H361	

- 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.
Use a respiratory bag or breathing device.
- After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Call a doctor immediately.
- After eye contact:
Rinse opened eye under running water at least for 10 minutes.
Call a doctor immediately.
- 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.



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

Version number: 1279917

Revision: 05.06.2022

Printing date: 05.06.2022

PRODUCT : POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35*(Contd. of page 2)***05 Firefighting measures**

- 5.1 Extinguishing media
- Suitable extinguishing agents:
Alcohol resistant foam, carbon dioxide blanket, water fog.
- 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:
Treat with 2 % sodium hydroxide solution.
- 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
Prevent formation of aerosols.
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 re-commended 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.
- 7.2 Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:
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:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Do not inhale dust / smoke / mist.
Avoid contact with the eyes and skin.

(Contd. on page 4)



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

Page: 4 / 7

Version number: 1279917

Revision: 05.06.2022

Printing date: 05.06.2022

PRODUCT : POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35

(Contd. of page 3)

- 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.
Occupational use of this preparation by young people is restricted or entirely forbidden. Please refer to the detailed safety regulations in chapter 15.

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.
Vapour pressure:	Not determined.
Density:	1,5000 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.
----------------------------	----------------

GB

(Contd. on page 5)



Version number: 1279917
Revision: 05.06.2022
Printing date: 05.06.2022

PRODUCT : POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35

(Contd. of page 4)

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:
Strong acids, strong bases, strong oxidants.
- 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:
**reaction mass of bis(2,3-epoxypropyl)terephthalate
and
tris(oxiranylmethyl)benzene-1,2,4-tricarboxylate**
* Oral, LD50: 300 mg/kg (rat) Dermal, LD50: >2000 mg/kg (rat) Oral, LD50: 7500 mg/kg (rat) Dermal, LD50: >7940 mg/kg (Rabbit) Oral,
LD50: 14700 mg/kg (rat) Dermal, LD50: >10000 mg/kg (Rabbit)
155-04-4 zinc-di(benzothiazol-2-yl)disulphide
77-99-6 propylidynetrimethanol
• Primary irritant effect:
• Skin corrosion/irritation
Powder coatings can cause local skin irritation.
• Serious eye damage/irritation
Irritating effect.
• Respiratory or skin sensitisation
Sensitisation possible through skin contact.
Allergic persons and employees with respiratory complaints should not work with powder coatings.
* • Additional toxicological information:
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for
Preparations as issued in the latest version:
Irritant
• Repeated dose toxicity
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.

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:
**reaction mass of bis(2,3-epoxypropyl)terephthalate
and
tris(oxiranylmethyl)benzene-1,2,4-tricarboxylate**
LC50/96h: 8.8 mg/l (fish) LC50/48h: 81 mg/l (daphnie) LD50/72h: 2.72 mg/l (alga) LC50/96h: 0.73 mg/l (fish) LC50/48h: 0.71 mg/l
(daphnie) LD50/72h: 0.5 mg/l (alga) LC50/96h: >1000 mg/l (fish) LC50/48h: 13000 mg/l (daphnie) LD50/72h: >1000 mg/l (alga)
155-04-4 zinc-di(benzothiazol-2-yl)disulphide
77-99-6 propylidynetrimethanol
• 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

(Contd. on page 6)



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

Page: 6 / 7

Version number: 1279917

Revision: 05.06.2022

Printing date: 05.06.2022

PRODUCT : POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35

(Contd. of page 5)

- No further relevant information available.
- Additional ecological information:
- General notes:
 - Water hazard class (CH): Meets water hazard class EC.
 - Water hazard class 2 EC (Assessment by list): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
- 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
 - 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

(Contd. on page 7)



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

Version number: 1279917

Revision: 05.06.2022

Printing date: 05.06.2022

PRODUCT : POLYFLEX PES-125-GU smooth Corona outgassing exterior silk-matt 35

Not applicable.

(Contd. of page 6)

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: 3
- National regulations:
When this preparation is used for occupational purposes, any relevant national regulations for the protection of young people must be adhered to. Germany: The restrictions set out in the Young Persons Employment Act (JarbSchG) must be observed. Switzerland: Regulations governing the protection of young people at work (ArGV 5, SR 822.115) and dangerous work for young people (822.115.2) must be observed. Young people under the age of 18 may only be exposed to or come into contact with this preparation after this has been expressly approved by the Federal Office for Professional Education and Technology (BBT) or the State Secretariat for Economic Affairs (SECO) as an exception to the normal regulations.
- Technical instructions (air):
- Class Share in %
III 0, 12
- Waterhazard class:
Water hazard class 2 (Assessment by list): 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
 - H302 Harmful if swallowed.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H361 Suspected of damaging fertility or the unborn child.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H411 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.