SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   Trade name : BPO-Paste

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Product use : Special system

1.3 Details of the supplier of the safety data sheet
   Company name of supplier : Sika Deutschland GmbH
                              Kornwestheimer Str. 103-107
                              D-70439 Stuttgart
   Telephone : +49 711 8009 0
   E-mail address of person responsible for the SDS : EHS@de.sika.com

1.4 Emergency telephone number
   Emergency CONTACT (24-Hour-Number):
   GBK GmbH Global Regulatory Compliance +49(0)6132-84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   **Classification (REGULATION (EC) No 1272/2008)**
   Organic peroxides, Type E
       H242: Heating may cause a fire.
   Eye irritation, Category 2
       H319: Causes serious eye irritation.
   Skin sensitisation, Category 1
       H317: May cause an allergic skin reaction.
   Short-term (acute) aquatic hazard, Category 1
       H400: Very toxic to aquatic life.
   Long-term (chronic) aquatic hazard, Category 1
       H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements
   **Labelling (REGULATION (EC) No 1272/2008)**
   Hazard pictograms :
   ! [Image of hazard pictograms]
   Signal word : Warning
Hazard statements:
- H242 Heating may cause a fire.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:
Prevention:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P234 Keep only in original packaging.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P391 Collect spillage.

Hazardous components which must be listed on the label:
- dibenzoyl peroxide

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No. EC-No. Registration number</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>dibenzoyl peroxide</td>
<td>94-36-0 202-327-6 01-2119511472-50-XXXX</td>
<td>Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td>
<td>&gt;= 40 - &lt; 60</td>
</tr>
<tr>
<td>ethanediol</td>
<td>107-21-1 203-473-3 01-2119456816-28-XXXX</td>
<td>Acute Tox. 4; H302 STOT RE 2; H373</td>
<td>&gt;= 5 - &lt; 10</td>
</tr>
</tbody>
</table>
SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:
Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled:
Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact:
Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact:
Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed:
Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:
Allergic reactions
Excessive lachrymation
See Section 11 for more detailed information on health effects and symptoms.

Risks:
irritant effects
sensitising effects
May cause an allergic skin reaction.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
Alcohol-resistant foam
Carbon dioxide (CO2)
Dry chemical

Unsuitable extinguishing media:
Water
High volume water jet
5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:
- Do not use a solid water stream as it may scatter and spread fire.
- Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products:
- Hazardous combustion products

No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for firefighters:
- In the event of fire, wear self-contained breathing apparatus.

Further information:
- Use water spray to cool unopened containers.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:
- Use personal protective equipment.
- Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions:
- Prevent product from entering drains.
- If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:
- Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:
- Avoid exceeding the given occupational exposure limits (see section 8).
- Do not get in eyes, on skin, or on clothing.
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For personal protection see section 8.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Open drum carefully as content may be under pressure.
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion:
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.

Hygiene measures:
Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers:
Store in original container. Store in cool place. Keep in a well-ventilated place. Observe label precautions. Store in accordance with local regulations.

Store in cool place. Store in accordance with local regulations.

Storage class (TRGS 510):
5.2, Organic peroxides and self-reacting hazardous materials

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

7.3 Specific end use(s)
Specific use(s):
Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters *</th>
<th>Basis *</th>
</tr>
</thead>
<tbody>
<tr>
<td>dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>AGW (Inhalable fraction)</td>
<td>5 mg/m3</td>
<td>DE TRGS 900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Peak-limit: excursion factor (category): 1;(f)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethanediol</td>
<td>107-21-1</td>
<td>STEL</td>
<td>40 ppm 104 mg/m3</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Further information: Identifies the possibility of significant uptake</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>through the skin, Indicative</th>
<th>TWA</th>
<th>20 ppm</th>
<th>52 mg/m³</th>
<th>2000/39/EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGW (Vapour and aerosols)</td>
<td>10 ppm</td>
<td>26 mg/m³</td>
<td>DE TRGS 900</td>
<td></td>
</tr>
</tbody>
</table>

Peak-limit: excursion factor (category): 2:(I)

Further information: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission). European Union (The EU has established a limit value: deviations in value and peak limit are possible), Sum of vapor and aerosols., Skin absorption. When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child.

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

8.2 Exposure controls

Personal protective equipment
Eye protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (0,4 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0,4 mm),
breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionally recommended for mixing and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapor filter (Type A)
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

Environmental exposure controls
General advice : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: paste
- Colour: various
- Odour: characteristic
- Odour Threshold: No data available
- pH: Not applicable
- : not determined
- : not determined
- Flash point: No data available
- Evaporation rate: No data available
- Flammability (solid, gas): auto-flammable
- Upper explosion limit / Upper flammability limit: No data available
- Lower explosion limit / Lower flammability limit: No data available
- Vapour pressure: not determined
- Relative vapour density: No data available
- Density: ca. 1.2 g/cm³ (20 °C)
- Solubility(ies)
  - Water solubility: insoluble
  - Solubility in other solvents: No data available
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: Not applicable
- : No data available
- Decomposition temperature: To avoid thermal decomposition, do not overheat.
Viscosity
  Viscosity, dynamic : No data available
  Viscosity, kinematic : > 20.5 mm²/s (40 °C)

Explosive properties : No data available
Oxidizing properties : No data available

9.2 Other information
  No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
  No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
  Decomposes on heating.

10.3 Possibility of hazardous reactions
  Hazardous reactions : Stable under recommended storage conditions.

10.4 Conditions to avoid
  Conditions to avoid : Heat, flames and sparks.
  Avoid storage temperature > 25°C.

10.5 Incompatible materials
  Materials to avoid : Acids and bases
  Reducing agents
  Heavy metals

10.6 Hazardous decomposition products
  No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
  Acute toxicity
  Not classified based on available information.

  Components:
  dibenzoyl peroxide:
  Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg
  Acute inhalation toxicity : LC50 (Rat): > 24.3 mg/l
Exposure time: 4 h  
Test atmosphere: dust/mist

**ethanediol:**
Acute oral toxicity  :  Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

**Skin corrosion/irritation**
Not classified based on available information.

**Serious eye damage/eye irritation**
Causes serious eye irritation.

**Respiratory or skin sensitisation**

**Skin sensitisation**
May cause an allergic skin reaction.

**Respiratory sensitisation**
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.

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**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**
- dibenzoyl peroxide:  
  M-Factor (Acute aquatic toxicity)  :  10

  M-Factor (Chronic aquatic toxicity)  :  10
12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
Product: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects
Product: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Product: In accordance with the EWC Waste Regulation the classification of waste is to be assigned to the jurisdiction of the origin of waste. Therefore, it is not possible to assign a particular waste identification number. Completely emptied packagings may be given for recycling. Empty packaging may still contain hazardous residues. Empty packaging should be removed by a licensed waste contractor. Sika has agreed disposal contracts for all packaging which is brought into circulation in Germany. For further details see www.sika.de

SECTION 14: Transport information

14.1 UN number
ADR : UN 3108
IMDG : UN 3108
IATA : UN 3108

14.2 UN proper shipping name
ADR: ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
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IMDG : ORGANIC PEROXIDE TYPE E, SOLID
(dibenzoyl peroxide)

IATA : Organic peroxide type E, solid
((dibenzoyl peroxide)

14.3 Transport hazard class(es)

ADR : 5.2
IMDG : 5.2
IATA : 5.2

14.4 Packing group

ADR
Packing group : Not assigned by regulation
Classification Code : P1
Labels : 5.2
Tunnel restriction code : (D)

IMDG
Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R

IATA (Cargo)
Packing instruction (cargo aircraft) : 570
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat

IATA (Passenger)
Packing instruction (passenger aircraft) : 570
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat

14.5 Environmental hazards

ADR
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

IATA (Passenger)
Environmentally hazardous : yes

IATA (Cargo)
Environmentally hazardous : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable for product as supplied.
SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII): Conditions of restriction for the following entries should be considered: Number on list 3

International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors: Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): None of the components are listed (=> 0.1 %).

REACH - List of substances subject to authorisation (Annex XIV): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

REACH Information: All substances contained in our Products are - registered by our upstream suppliers, and/or - registered by us, and/or - excluded from the regulation, and/or - exempted from the registration.

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

E1 ENVIRONMENTAL HAZARDS

Water contaminating class (Germany): WGK 1 slightly hazardous to water Classification according to AwSV, Annex 1 (5.2)

Volatile organic compounds: Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable
Other regulations:
Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

15.2 Chemical safety assessment
No Chemical Safety Assessment has been carried out for this mixture by the supplier.

SECTION 16: Other information

Full text of H-statements

H241: Heating may cause a fire or explosion.
H302: Harmful if swallowed.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H373: May cause damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.: Acute toxicity
Aquatic Acute: Short-term (acute) aquatic hazard
Aquatic Chronic: Long-term (chronic) aquatic hazard
Eye Irrit.: Eye irritation
Org. Perox.: Organic peroxides
Skin Sens.: Skin sensitisation
STOT RE: Specific target organ toxicity - repeated exposure
DE TRGS 900: Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA: Limit Value - eight hours
2000/39/EC / STEL: Short term exposure limit
DE TRGS 900 / AGW: Time Weighted Average
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS: Chemical Abstracts Service
DNEL: Derived no-effect level
EC50: Half maximal effective concentration
GHS: Globally Harmonized System
IATA: International Air Transport Association
IMDG: International Maritime Code for Dangerous Goods
LD50: Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)
LC50: Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)
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<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OEL</td>
<td>Occupational Exposure Limit</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, bioaccumulative and toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted no effect concentration</td>
</tr>
<tr>
<td>SVHC</td>
<td>Substances of Very High Concern</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very persistent and very bioaccumulative</td>
</tr>
</tbody>
</table>

---

**Further information**

**Classification of the mixture:**

- **Org. Perox. E**
  - H242
  - Based on product data or assessment

- **Eye Irrit. 2**
  - H319
  - Calculation method

- **Skin Sens. 1**
  - H317
  - Calculation method

- **Aquatic Acute 1**
  - H400
  - Calculation method

- **Aquatic Chronic 1**
  - H410
  - Calculation method

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The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

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**Changes as compared to previous version !**

DE / EN