



**BPO-Paste**



**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** BPO-Paste  
**Other means of identification:**  
Non-applicable
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Catalyst for unsaturated polyesters. For professional users/industrial user only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:**  
Roberlo S.A.U.  
Ctra. Nacional II, Km. 706,5  
17457 Riudellots de la Selva - Gerona - España  
Phone: +34 972 478060 (8:00-12:45 / 14:15-17:30 h) (GMT +1:00) - Fax: +34972477394  
msds@roberlo.com
- 1.4 Emergency telephone number:** +44 (0)1924 431679 / 112 / +34 972 478060 (8:00-12:45 / 14:15-17:30 h) ROBERLO (Spain) (GMT + 1:00)

**SECTION 2: HAZARDS IDENTIFICATION \*\***

- 2.1 Classification of the substance or mixture:**  
**CLP Regulation (EC) No 1272/2008:**  
Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.  
Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400  
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410  
Eye Irrit. 2: Eye irritation, Category 2, H319  
Org. Perox. D: Organic peroxides, Category D, H242  
Skin Sens. 1: Sensitisation, skin, Category 1, H317
- 2.2 Label elements:**  
**CLP Regulation (EC) No 1272/2008:**  
**Danger**  
  
**Hazard statements:**  
H242 - Heating may cause a fire.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.  
**Precautionary statements:**  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P280: Wear protective gloves/protective clothing/respiratory protection/eye protection/protective footwear.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P370+P378: In case of fire: Use ABC powder extinguisher to extinguish.  
P501: Dispose of contents/container in accordance with regulations on hazardous waste or packaging and packaging waste respectively.  
**Substances that contribute to the classification**  
Dibenzoyl peroxide
- 2.3 Other hazards:**  
Product does not meet PBT/vPvB criteria  
Endocrine-disrupting properties: The product does not meet the criteria.

\*\* Changes with regards to the previous version

- CONTINUED ON NEXT PAGE -



## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance:

Non-applicable

### 3.2 Mixture:

**Chemical description:** Organic peroxide/s

#### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification                                                                        | Chemical name/Classification             |                                                                                                                      | Concentration        |
|---------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------|
| CAS: 94-36-0<br>EC: 202-327-6<br>Index: 617-008-00-0<br>REACH: 01-2119511472-50-XXXX  | <b>Dibenzoyl peroxide <sup>(1)</sup></b> | Self-classified                                                                                                      | <b>50 - &lt;75 %</b> |
|                                                                                       | Regulation 1272/2008                     | Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Irrit. 2: H319; Org. Perox. B: H241; Skin Sens. 1: H317 - Danger |                      |
| CAS: 107-21-1<br>EC: 203-473-3<br>Index: 603-027-00-1<br>REACH: 01-2119456816-28-XXXX | <b>Ethanediol <sup>(1)</sup></b>         | Self-classified                                                                                                      | <b>5 - &lt;10 %</b>  |
|                                                                                       | Regulation 1272/2008                     | Acute Tox. 4: H302; STOT RE 2: H373 - Warning                                                                        |                      |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### Other information:

| Identification     |               | M-factor |    |
|--------------------|---------------|----------|----|
| Dibenzoyl peroxide |               | Acute    | 10 |
| CAS: 94-36-0       | EC: 202-327-6 | Chronic  | 10 |

  

| Identification                                      | Specific concentration limit                                                 |
|-----------------------------------------------------|------------------------------------------------------------------------------|
| Dibenzoyl peroxide<br>CAS: 94-36-0<br>EC: 202-327-6 | % (w/w) >=52: Org. Perox. B - H241<br>35<= % (w/w) <52: Org. Perox. D - H242 |

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

#### By inhalation:

This product does not contain substances classified as hazardous for inhalation, however, in case of symptoms of intoxication remove the person affected from the exposure area and provide with fresh air. Seek medical attention if the symptoms get worse or persist.

#### By skin contact:

May cause an allergic skin reaction. In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes on the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

#### By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

#### By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable



## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

#### Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO<sub>2</sub>).

#### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

### 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

#### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures:

#### For non-emergency personnel:

HEATING MAY CAUSE A FIRE. Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

#### For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

### 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

### 6.4 Reference to other sections:

See sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling:

#### A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

#### B.- Technical recommendations for the prevention of fires and explosions

AVOID ANY KIND OF HEATING. Devices and systems must comply with the essential safety and health requirements and, with the minimum requirements for improving the health and safety protection of workers. Consult section 10 for conditions and materials that should be avoided. KEEP ONLY IN ORIGINAL CONTAINER.

#### C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

#### D.- Technical recommendations to prevent environmental risks

Preferably use aspiration for cleaning. Given the danger of the product by inhalation, any cleaning method that involves exposure to the product in this way (sweeping, etc.) is not recommended

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## SECTION 7: HANDLING AND STORAGE (continued)

### 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 5 °C

Maximum Temp.: 30 °C

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

### 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC, Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

| Identification                            |  | Occupational exposure limits |        |                       |
|-------------------------------------------|--|------------------------------|--------|-----------------------|
| Ethanediol<br>CAS: 107-21-1 EC: 203-473-3 |  | IOELV (8h)                   | 20 ppm | 52 mg/m <sup>3</sup>  |
|                                           |  | IOELV (STEL)                 | 40 ppm | 104 mg/m <sup>3</sup> |

Nuisance dust: Inhalable dust 10 mg/m<sup>3</sup> // Respirable dust 4 mg/m<sup>3</sup>

#### DNEL (Workers):

| Identification                                      |            | Short exposure |                | Long exposure        |                      |
|-----------------------------------------------------|------------|----------------|----------------|----------------------|----------------------|
|                                                     |            | Systemic       | Local          | Systemic             | Local                |
| Dibenzoyl peroxide<br>CAS: 94-36-0<br>EC: 202-327-6 | Oral       | Non-applicable | Non-applicable | Non-applicable       | Non-applicable       |
|                                                     | Dermal     | Non-applicable | Non-applicable | 13,3 mg/kg           | Non-applicable       |
|                                                     | Inhalation | Non-applicable | Non-applicable | 39 mg/m <sup>3</sup> | Non-applicable       |
| Ethanediol<br>CAS: 107-21-1<br>EC: 203-473-3        | Oral       | Non-applicable | Non-applicable | Non-applicable       | Non-applicable       |
|                                                     | Dermal     | Non-applicable | Non-applicable | 106 mg/kg            | Non-applicable       |
|                                                     | Inhalation | Non-applicable | Non-applicable | Non-applicable       | 35 mg/m <sup>3</sup> |

#### DNEL (General population):

| Identification                                      |            | Short exposure |                | Long exposure  |                     |
|-----------------------------------------------------|------------|----------------|----------------|----------------|---------------------|
|                                                     |            | Systemic       | Local          | Systemic       | Local               |
| Dibenzoyl peroxide<br>CAS: 94-36-0<br>EC: 202-327-6 | Oral       | Non-applicable | Non-applicable | 2 mg/kg        | Non-applicable      |
|                                                     | Dermal     | Non-applicable | Non-applicable | Non-applicable | Non-applicable      |
|                                                     | Inhalation | Non-applicable | Non-applicable | Non-applicable | Non-applicable      |
| Ethanediol<br>CAS: 107-21-1<br>EC: 203-473-3        | Oral       | Non-applicable | Non-applicable | Non-applicable | Non-applicable      |
|                                                     | Dermal     | Non-applicable | Non-applicable | 53 mg/kg       | Non-applicable      |
|                                                     | Inhalation | Non-applicable | Non-applicable | Non-applicable | 7 mg/m <sup>3</sup> |

#### PNEC:

| Identification                                      |              |                |                         |               |  |
|-----------------------------------------------------|--------------|----------------|-------------------------|---------------|--|
| Dibenzoyl peroxide<br>CAS: 94-36-0<br>EC: 202-327-6 | STP          | 0,35 mg/L      | Fresh water             | 0,00002 mg/L  |  |
|                                                     | Soil         | 0,003 mg/kg    | Marine water            | 0,000002 mg/L |  |
|                                                     | Intermittent | 0,000602 mg/L  | Sediment (Fresh water)  | 0,013 mg/kg   |  |
|                                                     | Oral         | Non-applicable | Sediment (Marine water) | 0,001 mg/kg   |  |
| Ethanediol<br>CAS: 107-21-1<br>EC: 203-473-3        | STP          | 199,5 mg/L     | Fresh water             | 10 mg/L       |  |
|                                                     | Soil         | 1,53 mg/kg     | Marine water            | 1 mg/L        |  |
|                                                     | Intermittent | 10 mg/L        | Sediment (Fresh water)  | 37 mg/kg      |  |
|                                                     | Oral         | Non-applicable | Sediment (Marine water) | 3,7 mg/kg     |  |

### 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

### B.- Respiratory protection

| Pictogram                                                                                                                   | PPE                               | Labelling                                                                                    | CEN Standard        | Remarks                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory respiratory tract protection | Filter mask for gases and vapours | <br>CAT III | EN 405:2002+A1:2010 | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |

### C.- Specific protection for the hands

| Pictogram                                                                                                      | PPE                                   | Labelling                                                                                  | CEN Standard | Remarks                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory hand protection | Protective gloves against minor risks | <br>CAT I |              | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018 |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

### D.- Eye and face protection

| Pictogram                                                                                                        | PPE                                           | Labelling                                                                                     | CEN Standard                    | Remarks                                                                                                                   |
|------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. | <br>CAT II | EN 166:2002<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

### E.- Body protection

| Pictogram                                                                                                                 | PPE                                                           | Labelling                                                                                      | CEN Standard                                                                                             | Remarks                                     |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------|
| <br>Mandatory complete body protection | Antistatic and fireproof protective clothing                  | <br>CAT III | EN 1149-1:2006<br>EN 1149-2:1997<br>EN 1149-3:2004<br>EN 168:2002<br>EN ISO 14116:2015<br>EN 1149-5:2018 | Limited protection against flames.          |
| <br>Mandatory foot protection          | Safety footwear with antistatic and heat resistant properties | <br>CAT III | EN ISO 13287:2020<br>EN ISO 20345:2011                                                                   | Replace boots at any sign of deterioration. |

### F.- Additional emergency measures

| Emergency measure                                                                                       | Standards                                       | Emergency measure                                                                                        | Standards                                      |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

### Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

### Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                          |                             |
|--------------------------|-----------------------------|
| V.O.C. (Supply):         | 0 % weight                  |
| V.O.C. density at 20 °C: | 0 kg/m <sup>3</sup> (0 g/L) |
| Average carbon number:   | Non-applicable              |



## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Average molecular weight: Non-applicable

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

#### Appearance:

|                          |                                          |
|--------------------------|------------------------------------------|
| Physical state at 20 °C: | Solid                                    |
| Appearance:              | Paste                                    |
| Colour:                  | According to the markings on the package |
| Odour:                   | Characteristic                           |
| Odour threshold:         | Non-applicable *                         |

#### Volatility:

|                                        |                  |
|----------------------------------------|------------------|
| Boiling point at atmospheric pressure: | Non-applicable * |
| Vapour pressure at 20 °C:              | Non-applicable * |
| Vapour pressure at 50 °C:              | Non-applicable * |
| Evaporation rate at 20 °C:             | Non-applicable * |

#### Product description:

|                                              |                               |
|----------------------------------------------|-------------------------------|
| Density at 20 °C:                            | 1140 - 1200 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | Non-applicable *              |
| Dynamic viscosity at 20 °C:                  | Non-applicable *              |
| Kinematic viscosity at 20 °C:                | Non-applicable *              |
| Kinematic viscosity at 40 °C:                | >20,5 mm <sup>2</sup> /s      |
| Concentration:                               | Non-applicable *              |
| pH:                                          | 4 - 5                         |
| Vapour density at 20 °C:                     | Non-applicable *              |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *              |
| Solubility in water at 20 °C:                | Non-applicable *              |
| Solubility properties:                       | Non-applicable *              |
| Decomposition temperature:                   | 50 °C                         |
| Melting point/freezing point:                | Non-applicable *              |

#### Flammability:

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non-applicable         |
| Flammability (solid, gas): | Non-applicable *       |
| Autoignition temperature:  | 400 °C (ASTM D3466-76) |
| Lower flammability limit:  | Non-applicable *       |
| Upper flammability limit:  | Non-applicable *       |

#### Explosive (Solid):

|                        |                  |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

#### Particle characteristics:

|                             |                  |
|-----------------------------|------------------|
| Median equivalent diameter: | Non-applicable * |
|-----------------------------|------------------|

### 9.2 Other information:

#### Information with regard to physical hazard classes:

|                       |                  |
|-----------------------|------------------|
| Explosive properties: | Non-applicable * |
|-----------------------|------------------|

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

|                                                              |                                |
|--------------------------------------------------------------|--------------------------------|
| Oxidising properties:                                        | H242 Heating may cause a fire. |
| Corrosive to metals:                                         | Non-applicable *               |
| Heat of combustion:                                          | Non-applicable *               |
| Aerosols-total percentage (by mass) of flammable components: | Non-applicable *               |
| <b>Other safety characteristics:</b>                         |                                |
| Surface tension at 20 °C:                                    | Non-applicable *               |
| Refraction index:                                            | Non-applicable *               |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

### 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

### 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature               | Sunlight            | Humidity       |
|--------------------|------------------|---------------------------------------|---------------------|----------------|
| Not applicable     | Not applicable   | Heating may cause a fire or explosion | Avoid direct impact | Not applicable |

### 10.5 Incompatible materials:

| Acids              | Water          | Oxidising materials | Combustible materials | Others                                                                       |
|--------------------|----------------|---------------------|-----------------------|------------------------------------------------------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Avoid direct impact   | Avoid alkalines, heavy metals, reducing agents, peroxide accelerating agents |

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health.

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

#### A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### B- Inhalation (acute effect):

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.

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## SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Corrosivity/Irritability:
- C- Contact with the skin and the eyes (acute effect):
  - Contact with the skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for skin contact. For more information see section 3.
  - Contact with the eyes: Produces eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:
  - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
  - Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) - single exposure:
 

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:
 

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

### Other information:

Non-applicable

### Specific toxicology information on the substances:

| Identification                                      | Acute toxicity  |                 | Genus  |
|-----------------------------------------------------|-----------------|-----------------|--------|
| Dibenzoyl peroxide<br>CAS: 94-36-0<br>EC: 202-327-6 | LD50 oral       | 7710 mg/kg      | Rat    |
|                                                     | LD50 dermal     | >2000 mg/kg     |        |
|                                                     | LC50 inhalation | >5 mg/L         |        |
| Ethanedial<br>CAS: 107-21-1<br>EC: 203-473-3        | LD50 oral       | 7712 mg/kg      | Rat    |
|                                                     | LD50 dermal     | >3500 mg/kg     | Rabbit |
|                                                     | LC50 inhalation | >2,5 mg/L (6 h) | Rat    |

### 11.2 Information on other hazards:

#### Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

#### Other information

Non-applicable

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

### 12.1 Toxicity:

#### Acute toxicity:

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## SECTION 12: ECOLOGICAL INFORMATION (continued)

| Identification     | Concentration           | Species                         | Genus      |
|--------------------|-------------------------|---------------------------------|------------|
| Dibenzoyl peroxide | LC50 0,0602 mg/L (96 h) | Oncorhynchus mykiss             | Fish       |
| CAS: 94-36-0       | EC50 0,11 mg/L (48 h)   | Daphnia magna                   | Crustacean |
| EC: 202-327-6      | EC50 0,071 mg/L (72 h)  | Pseudokirchneriella subcapitata | Algae      |
| Ethanediol         | LC50 53000 mg/L (96 h)  | Pimephales promelas             | Fish       |
| CAS: 107-21-1      | EC50 51000 mg/L (48 h)  | Daphnia magna                   | Crustacean |
| EC: 203-473-3      | EC50 24000 mg/L (168 h) | Selenastrum capricornutum       | Algae      |

### 12.2 Persistence and degradability:

#### Substance-specific information:

| Identification     | Degradability           | Biodegradability             |
|--------------------|-------------------------|------------------------------|
| Dibenzoyl peroxide | BOD5 Non-applicable     | Concentration Non-applicable |
| CAS: 94-36-0       | COD Non-applicable      | Period 10 days               |
| EC: 202-327-6      | BOD5/COD Non-applicable | % Biodegradable 68 %         |
| Ethanediol         | BOD5 0,47 g O2/g        | Concentration 100 mg/L       |
| CAS: 107-21-1      | COD 1,29 g O2/g         | Period 14 days               |
| EC: 203-473-3      | BOD5/COD 0,36           | % Biodegradable 90 %         |

### 12.3 Bioaccumulative potential:

#### Substance-specific information:

| Identification | Bioaccumulation potential |
|----------------|---------------------------|
| Ethanediol     | BCF 10                    |
| CAS: 107-21-1  | Pow Log -1.36             |
| EC: 203-473-3  | Potential Low             |

### 12.4 Mobility in soil:

| Identification     | Absorption/desorption                | Volatility                            |
|--------------------|--------------------------------------|---------------------------------------|
| Dibenzoyl peroxide | Koc 6309.57                          | Henry Non-applicable                  |
| CAS: 94-36-0       | Conclusion Immobile                  | Dry soil Non-applicable               |
| EC: 202-327-6      | Surface tension Non-applicable       | Moist soil Non-applicable             |
| Ethanediol         | Koc 0                                | Henry 1,327E-1 Pa·m <sup>3</sup> /mol |
| CAS: 107-21-1      | Conclusion Very High                 | Dry soil No                           |
| EC: 203-473-3      | Surface tension 4,989E-2 N/m (25 °C) | Moist soil No                         |

### 12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

### 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

### 12.7 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

| Code      | Description                                                                       | Waste class (Regulation (EU) No 1357/2014) |
|-----------|-----------------------------------------------------------------------------------|--------------------------------------------|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | Dangerous                                  |

#### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP14 Ecotoxic, HP13 Sensitising, HP4 Irritant — skin irritation and eye damage

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

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## SECTION 13: DISPOSAL CONSIDERATIONS (continued)

### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

## SECTION 14: TRANSPORT INFORMATION

### Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:



- |                                                                      |                                                      |
|----------------------------------------------------------------------|------------------------------------------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN3108                                               |
| <b>14.2 UN proper shipping name:</b>                                 | ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide ) |
| <b>14.3 Transport hazard class(es):</b>                              | 5.2                                                  |
| Labels:                                                              | 5.2                                                  |
| <b>14.4 Packing group:</b>                                           | N/A                                                  |
| <b>14.5 Environmental hazards:</b>                                   | Yes                                                  |
| <b>14.6 Special precautions for user</b>                             |                                                      |
| Special regulations:                                                 | 122, 274                                             |
| Tunnel restriction code:                                             | D                                                    |
| Physico-Chemical properties:                                         | see section 9                                        |
| Limited quantities:                                                  | 500 g                                                |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Non-applicable                                       |

### Transport of dangerous goods by sea:

With regard to IMDG 40-20:



- |                                                                      |                                                      |
|----------------------------------------------------------------------|------------------------------------------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN3108                                               |
| <b>14.2 UN proper shipping name:</b>                                 | ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide ) |
| <b>14.3 Transport hazard class(es):</b>                              | 5.2                                                  |
| Labels:                                                              | 5.2                                                  |
| <b>14.4 Packing group:</b>                                           | N/A                                                  |
| <b>14.5 Marine pollutant:</b>                                        | Yes                                                  |
| <b>14.6 Special precautions for user</b>                             |                                                      |
| Special regulations:                                                 | 274, 122                                             |
| EmS Codes:                                                           | F-J, S-R                                             |
| Physico-Chemical properties:                                         | see section 9                                        |
| Limited quantities:                                                  | 500 g                                                |
| Segregation group:                                                   | SGG16                                                |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Non-applicable                                       |

### Transport of dangerous goods by air:

With regard to IATA/ICAO 2023:



- |                                                                      |                                                      |
|----------------------------------------------------------------------|------------------------------------------------------|
| <b>14.1 UN number or ID number:</b>                                  | UN3108                                               |
| <b>14.2 UN proper shipping name:</b>                                 | ORGANIC PEROXIDE TYPE E, SOLID (Dibenzoyl peroxide ) |
| <b>14.3 Transport hazard class(es):</b>                              | 5.2                                                  |
| Labels:                                                              | 5.2                                                  |
| <b>14.4 Packing group:</b>                                           | N/A                                                  |
| <b>14.5 Environmental hazards:</b>                                   | Yes                                                  |
| <b>14.6 Special precautions for user</b>                             |                                                      |
| Physico-Chemical properties:                                         | see section 9                                        |
| <b>14.7 Maritime transport in bulk according to IMO instruments:</b> | Non-applicable                                       |

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## SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable  
Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable  
Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable  
Article 95, REGULATION (EU) No 528/2012: Non-applicable  
REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Seveso III:

| Section | Description                                                 | Lower-tier requirements | Upper-tier requirements |
|---------|-------------------------------------------------------------|-------------------------|-------------------------|
| P6b     | SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES | 50                      | 200                     |
| E1      | ENVIRONMENTAL HAZARDS                                       | 100                     | 200                     |

#### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Non-applicable

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

#### Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Precautionary statements

#### Texts of the legislative phrases mentioned in section 2:

H242: Heating may cause a fire.  
H317: May cause an allergic skin reaction.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H319: Causes serious eye irritation.

#### Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 4: H302 - Harmful if swallowed.  
Aquatic Acute 1: H400 - Very toxic to aquatic life.  
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.  
Eye Irrit. 2: H319 - Causes serious eye irritation.  
Org. Perox. B: H241 - Heating may cause a fire or explosion.  
Skin Sens. 1: H317 - May cause an allergic skin reaction.  
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure (Oral).

#### Classification procedure:

Skin Sens. 1: Calculation method  
Aquatic Acute 1: Calculation method  
Aquatic Chronic 1: Calculation method  
Eye Irrit. 2: Calculation method

#### Advice related to training:

- CONTINUED ON NEXT PAGE -



## Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific legislation

### BPO-Paste



#### SECTION 16: OTHER INFORMATION (continued)

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

##### Principal bibliographical sources:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

##### Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

LogPOW: Octanolwater partition coefficient

Koc: Partition coefficient of organic carbon

UFI: unique formula identifier

IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -