



## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 2 of 11

	smoking.
P220	Keep away from clothing and other combustible materials.
P234	Keep only in original packaging.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/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.
P410	Protect from sunlight.
P411+P235	Store at temperatures not exceeding 30 °C/86 °F. Keep cool.
P420	Store separately.
P501	Dispose of contents/container to in accordance with local and national regulations.

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Dust may form explosive mixtures with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Hardener based on dibenzoyl peroxide

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
84-61-7	Dicyclohexyl phthalate			40 - 50 %
	201-545-9		01-2119978223-34	
	Repr. 1B, Skin Sens. 1, Aquatic Chronic 3; H360D H317 H412			
94-36-0	dibenzoyl peroxide			40 - 50 %
	202-327-6	617-008-00-0	01-2119511472-50	
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H241 H319 H317 H400 H410			

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
94-36-0	202-327-6	dibenzoyl peroxide	40 - 50 %
	M acute; H400: M=10 M chron.; H410: M=10		

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.

Adhere to personal protective measures when giving first aid.

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 3 of 11

Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

### After inhalation

Supply fresh air, if required oxygen, consult a physician.  
If patient is not breathing, apply artificial respiration.  
Remove the casualty into fresh air and keep him immobile.  
In case of the person being unconscious put him/her in a stable side position.

### After contact with skin

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical treatment by eye specialist.

### After ingestion

Summon a doctor immediately.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Induce vomiting only upon the advice of a physician.

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

Causes serious eye irritation.  
May cause an allergic skin reaction.  
May damage the unborn child.

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

Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO<sub>2</sub>), water-spray.

#### Unsuitable extinguishing media

Full water jet.

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

Fire may produce:  
carbon monoxide and carbon dioxide  
Hydrocarbons

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

### Additional information

Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

#### General advice

Ensure adequate ventilation.  
Keep away sources of ignition.  
Keep away noninvolved persons.

#### For non-emergency personnel

Avoid contact with skin, eyes and clothing.  
Do not breathe dust.

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 4 of 11

### For emergency responders

In case of respirable dust, use a self-contained breathing apparatus.  
Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
Inform competent authority about release into the sewerage, ground or into waters.

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

#### For containment

No special measures required.

#### For cleaning up

Shovel into suitable container for disposal.  
Soak up with inert absorbent material (e.g. vermiculite, clean sand).  
In compliance with regulations by local authorities this can be subjected to a special treatment (e.g. thermal utilization) after dilution with an inert solid to 10% content of peroxides.  
Do not keep container sealed.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).  
Informations for disposal look up chapter 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.  
Avoid the formation of dust. Do not breathe dust.  
Wash hands before breaks and at the end of workday.  
Keep away from acids, bases, heavy metal salts and reducing agents.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.  
Keep away from open flames, hot surfaces and sources of ignition.  
Use explosion-proof equipment / fittings and non-sparking tools.

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

#### Requirements for storage rooms and vessels

Keep only in original container.  
Keep container tightly closed in a dry, cool and well-ventilated place.  
Protect against direct sun radiation.  
Recommended storage temperature: +5°C - +30°C

#### Hints on joint storage

Incompatible with:  
Reducing agents, Heavy metal salts, Acids and bases.

#### Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Hardener

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 5 of 11

### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	
84-61-7	Dicyclohexyl phthalate	-	5		TWA (8 h)	

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

#### Protective and hygiene measures

- Do not inhale dust.
- Avoid contact with eyes and skin.
- Wash hands before breaks and immediately after handling the product.
- When using do not eat, drink or smoke.
- Remove and wash contaminated clothing before re-use.

#### Eye/face protection

- Tightly fitting goggles (EN 166).
- Eye wash bottle with pure water (EN 15154).

#### Hand protection

- Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.
- This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
- Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.
- Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

#### Skin protection

- Long sleeved clothing (DIN EN ISO 6530)
- Apron (EN 467).

#### Respiratory protection

- Breathing apparatus (particle filter) only if dust is formed. (Particle filter P2)

## SECTION 9: Physical and chemical properties

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

Physical state:	Powder
Colour:	Whitish
Odour:	Characteristic

#### Test method

pH-Value: n.a.

#### Changes in the physical state

Melting point/freezing point:	n.a.
Boiling point or initial boiling point and boiling range:	n.a.
Sublimation point:	n.a.
Softening point:	n.a.
Flash point:	n.a.

#### Flammability

Solid/liquid: n. d.

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 6 of 11

Gas: n.a.

### Explosive properties

The product is considered non-explosive; nevertheless explosive dust/air mixture can be generated

Lower explosion limits: n. d.

Upper explosion limits: n. d.

Auto-ignition temperature: n.a.

### Self-ignition temperature

Solid: The product is not self-igniting.

Gas: n.a.

Decomposition temperature: +60 °C SADT

### Oxidizing properties

May cause fire.

Vapour pressure: n.a.

Density: n. d.

Bulk density (at 20 °C): 610 kg/m<sup>3</sup>Water solubility:  
(at 20 °C) n. d.

### Solubility in other solvents

n. d.

Partition coefficient n-octanol/water: n. d.

Viscosity / dynamic: n.a.

Viscosity / kinematic: n.a.

Flow time: n.a.

Relative vapour density: n.a.

Evaporation rate: n.a.

Solvent separation test: 0 %

Solvent content: 0 %

### 9.2. Other information

Solid content: 100 %

SADT (UN-Test H.4): approx. 60°C

Active oxygen: 3,2 - 3,5%

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition if stored normally.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts with:

Soil, rust, chemicals, strong acids and bases and accelerators ( heavy metal salts, amines)

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Self-Accelerating decomposition temperature (SADT) from 60°C (SADT).

Dust may form explosive mixtures with air.

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 7 of 11

### 10.5. Incompatible materials

Soil, rust, chemicals, strong acids and bases and accelerators ( heavy metal salts, amines)

### 10.6. Hazardous decomposition products

No decomposition if stored normally.

Fire may produce:

Carbon monoxide and carbon dioxide

Hydrocarbons

## SECTION 11: Toxicological information

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

#### **Acute toxicity**

Based on available data, the classification criteria are not met.

No toxicological data available.

dibenzoyl peroxide: LD50/oral/rat: > 5000 mg/kg

Dicyclohexyl phthalate: LD50/oral/rat: > 2000 mg/kg

#### **Irritation and corrosivity**

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### **Sensitising effects**

May cause an allergic skin reaction. (Dicyclohexyl phthalate; dibenzoyl peroxide)

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

May damage the unborn child. (Dicyclohexyl phthalate)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

#### **Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecological data are not available.

Very toxic to aquatic organisms.

Harmful to aquatic life with long lasting effects.

dibenzoyl peroxide

LC50/Oncorhynchus mykiss/96 h = 0,0602 mg/l

EC50/Daphnia magna/48 h = 0,110 mg/l

EC50/Pseudokirchneriella subcapitata/72 h = 0,0711 mg/l

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 8 of 11

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

Hazard to waters.

### Further information

Do not flush into surface water or sanitary sewer system.

Risk of drinking water contamination even when low quantities are released into the ground.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### **Disposal recommendations**

In compliance with regulations by local authorities this can be subjected to a special treatment (e.g. thermal utilization) after dilution with an inert solid to 10% content of peroxides.

Where possible recycling is preferred to disposal.

#### **List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

#### **Contaminated packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information

### **Land transport (ADR/RID)**

<b><u>14.1. UN number:</u></b>	UN 3106
<b><u>14.2. UN proper shipping name:</u></b>	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)
<b><u>14.3. Transport hazard class(es):</u></b>	5.2
<b><u>14.4. Packing group:</u></b>	-
Hazard label:	5.2



Classification code:	P1
Limited quantity:	500 g / 30 kg
Excepted quantity:	E0
Transport category:	2
Tunnel restriction code:	D

### **Inland waterways transport (ADN)**

<b><u>14.1. UN number:</u></b>	UN 3106
<b><u>14.2. UN proper shipping name:</u></b>	ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)



## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 9 of 11

**14.3. Transport hazard class(es):** 5.2

**14.4. Packing group:** -

Hazard label: 5.2



Classification code: P1

Limited quantity: 500 g / 30 kg

Excepted quantity: E0

### Marine transport (IMDG)

**14.1. UN number:** UN 3106

**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)

**14.3. Transport hazard class(es):** 5.2

**14.4. Packing group:** -

Hazard label: 5.2



Marine pollutant: Yes

Limited quantity: 500 g / 30 kg

Excepted quantity: E0

EmS: F-J, S-R

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number:** UN 3106

**14.2. UN proper shipping name:** ORGANIC PEROXIDE TYPE D, SOLID (Dibenzoyl peroxide)

**14.3. Transport hazard class(es):** 5.2

**14.4. Packing group:** -

Hazard label: 5.2



Limited quantity Passenger: Forbidden

Passenger LQ: Forbidden

Excepted quantity: E0

IATA-packing instructions - Passenger: 570

IATA-max. quantity - Passenger: 5 kg

IATA-packing instructions - Cargo: 570

IATA-max. quantity - Cargo: 10 kg

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

### 14.7. Maritime transport in bulk according to IMO instruments

The transport takes place only in approved and appropriate packaging.

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 10 of 11

### SECTION 15: Regulatory information

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

##### EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):  
Dicyclohexyl phthalate

Restrictions on use (REACH, annex XVII):

Entry 30, Entry 75

2004/42/EC (VOC):

0 %

Information according to 2012/18/EU  
(SEVESO III):P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC  
PEROXIDES

Additional information:

E1

##### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D):

2 - obviously hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,12,15.

#### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation  
intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals  
in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

## ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 11 of 11

### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Org. Perox. D; H242	
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 1B; H360D	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

### Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360D	May damage the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*