

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 2 of 11

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H360D	May damage the unborn child.
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.
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		

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 3 of 11

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.
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 (CO₂), 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

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 4 of 11

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.

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/ground water.
Inform competent authority about release into the sewage, 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).
Information for disposal see section 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

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 5 of 11

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
94-36-0	Dibenzoyl peroxide	-	5		TWA (8 h)	WEL
84-61-7	Dicyclohexyl phthalate	-	5		TWA (8 h)	WEL

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 breathe 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.

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 6 of 11

Flash point: n.a.

Flammability

Solid/liquid: n.d.

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/m³

Water solubility: n.d.

(at 20 °C)

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).

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 7 of 11

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.

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 GB CLP Regulation

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

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 8 of 11

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

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

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

Hazardous water pollutant.

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)

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



Classification code:

P1

Limited quantity:

500 g / 30 kg

Excepted quantity:

E0

Transport category:

2

Tunnel restriction code:

D

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 9 of 11

Inland waterways transport (ADN)

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



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



ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 10 of 11

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.

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

ESKANOL PO HARDENER POWDER

Revision date: 23.08.2022

Product code: 00359-1313

Page 11 of 11

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to GB CLP Regulation

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.)