

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

EGOPOLYESTER HÄRTERPASTE

Revision date: 04.05.2023

Product code: 5736__310

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Hardener for polyester

1.3. Details of the supplier of the safety data sheet

Company name:	EGO Dichtstoffwerke GmbH & Co. Betriebs KG	
Street:	Kaltenbrunn 27	
Place:	D-82467 Garmisch-Partenkirchen	
Telephone:	+49 (0)8821 956 90	Telefax: +49 (0)8821 956 990
e-mail:	info@ego.de	
Contact person:	Laboratory	Telephone: +49 (0)8821 956 960
e-mail:	EGO-Labor@ego.de	
Internet:	www.ego.de	

1.4. Emergency telephone number:

+49 55119240 (24h/7d)
GIZ-Nord, Göttingen
Member of EPECs network

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

Org. Perox. E; H242
Eye Irrit. 2; H319
Skin Sens. 1; H317
Aquatic Acute 1; H400
Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

2.2. Label elements**Regulation (EC) No 1272/2008****Hazard components for labelling**

dibenzoyl peroxide

Signal word: Warning**Pictograms:****Hazard statements**

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

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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P220	smoking.
P280	Keep away from clothing and other combustible materials.
P302+P352	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF ON SKIN: Wash with plenty of water. 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 25 °C/77 °F. Keep cool.
P501	Dispose of contents/container in accordance with local regulation.

Special labelling of certain mixtures

Restricted to professional users.

Additional advice on labelling

The classification corresponds to the current EC listing, but is enhanced by specialised literature data and the Company's own information.

2.3. Other hazards

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Mixture of substances listed below with nonhazardous additions.

Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
94-36-0	dibenzoyl peroxide	25 - 50 %		
	202-327-6		01-2119511472-50	
	Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1; H241 H319 H317 H400			
107-21-1	ethanediol, ethylene glycol	< 10 %		
	203-473-3		01-2119456816-28	
	Acute Tox. 4, STOT RE 2; H302 H373			

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	25 - 50 %	
	inhalation: LC50 = 24,3 mg/l (vapours); oral: LD50 = 5000 mg/kg			
107-21-1	203-473-3	ethanediol, ethylene glycol	< 10 %	
	dermal: LD50 = 10600 mg/kg; oral: LD50 = 4700 mg/kg			

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Provide fresh air. Consult physician if problems persist.
If unconscious place in recovery position and seek medical advice.

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After contact with skin

After contact with skin, wash immediately with plenty of water and soap. If skin irritation persists, call a physician.

After contact with eyes

After contact with eye rinse immediately with lot of water at least 5 minutes with open eyelid. Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. In case of accident or if you feel unwell, seek medical advice immediately (show the packaging, label or safety data sheet if possible).

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

This information is not available.

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

This information is not available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂), Dry powder, Water fog.
Fight larger fires best with alcohol-resistant, water film-forming foam agents.
Extinguishing materials should be selected according to the surrounding area.

Unsuitable extinguishing media

Halons

5.2. Special hazards arising from the substance or mixture

Organic peroxide. Hazardous decomposition may occur. Sustains combustion.
In the event of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Cool container with water jet.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear personal protection equipment. Keep away from unprotected people. Keep upwind. Wear respiratory protection when in the presence of vapour, dust, and aerosols. Remove from all sources of ignition. Provide adequate ventilation.

For non-emergency personnel

Remove from all sources of ignition. Provide adequate ventilation. Wear personal protection equipment.

For emergency responders

Wear personal protection equipment.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up**For containment**

Cover the sewers.

For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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Do not allow material to contaminate ground water system. Do not flush with water.
Dispose of as special waste in compliance with local and national regulations.

Other information

Provide adequate ventilation.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Disposal: See also section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Do not breathe gas/vapour. Provide appropriate exhaust ventilation at machinery. Use only with adequate ventilation. Avoid contact with skin and eyes.

Keep away from heat and sources of ignition. Keep away from direct sunlight.

Take precautionary measures against static discharges. Avoid shock and friction.

When using, do not eat, drink or smoke.

Advice on protection against fire and explosion

Keep away from heat. Keep away from sources of ignition. No smoking. Oxidizing.

Use explosion-proof equipment.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

When using, do not eat, drink or smoke.

Take off immediately all contaminated clothing

Wash hands when done working with material; at breaks, lunch, shift changes, etc.

Avoid contact with the skin and the eyes.

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well ventilated place.

Keep away from food, drink and animal feeding stuffs.

Further information on storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Keep away from direct sunlight.

7.3. Specific end use(s)

Hardener for polyester

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Occupational exposure limit values**

CAS No	Name of agent	ppm	mg/m ³	fib/cm ³	Category	Origin
107-21-1	Ethylene glycol	20	52		TWA (8 h)	
		40	104		STEL (15 min)	

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DNEL/DMEL values

CAS No	Name of agent	Exposure route	Effect	Value
94-36-0	dibenzoyl peroxide			
Consumer DNEL, long-term		oral	systemic	1,65 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	3,3 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	6,6 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,9 mg/m ³
Worker DNEL, long-term		inhalation	systemic	11,75 mg/m ³

PNEC values

CAS No	Name of agent	Value
94-36-0	dibenzoyl peroxide	
Micro-organisms in sewage treatment plants (STP)		0,35 mg/l
Freshwater sediment		0,338 mg/kg
Marine sediment		0,0338 mg/kg
Soil		0,0758 mg/kg
Freshwater		0,602 mg/l
Marine water		0,0602 mg/l

8.2. Exposure controls**Individual protection measures, such as personal protective equipment****Eye/face protection**

Tightly sealed safety glasses.

Hand protection

Protective gloves: Nitrile rubber, Neoprene; Layer thickness > 0,6 mm

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection

Protective suit

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards

Do not heat the product.

Under fire conditions: Flame-resistant clothing

Low temperature resistant gloves: not required

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	Paste
Colour:	white
Odour:	characteristic
Odour threshold:	not determined

Test method

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Melting point/freezing point:	-10 °C
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	not applicable
Auto-ignition temperature:	410 °C DIN 51794
Decomposition temperature:	50 °C SADT
pH-Value:	not determined
Viscosity / kinematic:	not determined
Water solubility:	slightly soluble
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 20 °C)	23 hPa
Density (at 20 °C):	1,26 g/cm ³ DIN 53217
Particle characteristics:	not applicable

9.2. Other information**Information with regard to physical hazard classes**

Explosive properties

product not Explosive.

Self-Accelerating decomposition temperature (SADT) 50°C

Other safety characteristics

Solvent content:

10% Water

Solid content:

84%

Viscosity / dynamic:

not determined

Further Information

The product is: not auto-flammable

SECTION 10: Stability and reactivity**10.1. Reactivity**

This information is not available.

10.2. Chemical stability

No decomposition if stored and applied as directed.

To avoid thermal decomposition, do not overheat. Self-Accelerating decomposition temperature (SADT) = 50°C

10.3. Possibility of hazardous reactions

Reacts with the following substances: Reducing agents, Heavy metals, Acids, Oxidizing agents, Bases

10.6. Hazardous decomposition products

Carbon monoxide, benzene.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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Acute toxicity

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
94-36-0	dibenzoyl peroxide					
	oral	LD50 mg/kg	5000	rat		
	inhalation vapour	LC50	24,3 mg/l	rat		
107-21-1	ethanediol, ethylene glycol					
	oral	LD50 mg/kg	4700	rat		
	dermal	LD50 mg/kg	10600	Rabbit	GESTIS	

Irritation and corrosivity

Causes serious eye irritation.

Sensitising effects

May cause sensitisation by skin contact.

Carcinogenic/mutagenic/toxic effects for reproduction

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.

Information on likely routes of exposure

Skin contact

Specific effects in experiment on an animal

This information is not available.

SECTION 12: Ecological information**12.1. Toxicity**

Do not flush into surface water or sanitary sewer system. Leakage of already small quantities into the soil hazardous to drinking water

Toxic effects on fish and plankton. Very toxic to aquatic organisms.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
94-36-0	dibenzoyl peroxide					
	Acute fish toxicity	LC50 mg/l	0,0602	96 h	Oncorhynchus mykiss (rainbow trout)	OECD Test Guideline 203
	Acute algae toxicity	ErC50 mg/l	0,0711	72 h	Pseudokirchneriella subcapitata (green algae)	OECD Test Guideline 203
	Acute crustacea toxicity	EC50 mg/l	0,110	48 h	Daphnia magna (Water flea)	OECD Test Guideline 202
107-21-1	ethanediol, ethylene glycol					
	Acute fish toxicity	LC50 mg/l	8050	96 h		
	Acute crustacea toxicity	EC50 mg/l	6900	48 h		

12.2. Persistence and degradability

This information is not available.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
94-36-0	dibenzoyl peroxide			
	Biodegradability (Water)28-day	68 %		

12.3. Bioaccumulative potential

This information is not available.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
94-36-0	dibenzoyl peroxide	3,2
107-21-1	ethanediol, ethylene glycol	-1,36

12.4. Mobility in soil

This information is not 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.

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.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable local, state, and federal regulations. Do not put residues of product into household waste. It should be given in the original package to the official waste disposal authorities.

List of Wastes Code - residues/unused products

160903 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; oxidising substances; peroxides, for example hydrogen peroxide; hazardous waste

Contaminated packaging

Dispose of waste according to applicable local, state, and federal regulations.

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SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number: UN 3108
14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide in), Environmentally hazardous
14.3. Transport hazard class(es): 5.2
14.4. Packing group: -
 Hazard label: 5.2



Classification code: P1
 Special Provisions: 122 274
 Limited quantity: 500 g
 Excepted quantity: E0
 Transport category: 2
 Tunnel restriction code: D

Marine transport (IMDG)

14.1. UN number or ID number: UN 3108
14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT
14.3. Transport hazard class(es): 5.2
14.4. Packing group: -
 Hazard label: 5.2



Marine pollutant: yes
 Special Provisions: 122, 274
 Limited quantity: 500 g
 Excepted quantity: E0
 EmS: F-J, S-R

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 3108
14.2. UN proper shipping name: ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), MARINE POLLUTANT
14.3. Transport hazard class(es): 5.2
14.4. Packing group: -
 Hazard label: 5.2



Special Provisions: A20 A802
 Limited quantity Passenger: Forbidden
 Passenger LQ: Forbidden
 Excepted quantity: E0
 IATA-packing instructions - Passenger: 570
 IATA-max. quantity - Passenger: 10 kg
 IATA-packing instructions - Cargo: 570
 IATA-max. quantity - Cargo: 25 kg

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14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

WARNING! Organic peroxide

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC): 6%

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,6,7,8,9,11,12,16.

Abbreviations and acronyms

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

CAS: Chemical Abstracts Service

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation
intérieures)

IMDG: International Maritime Code for Dangerous Goods

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EmS: Emergency Schedules
MFAG: Medical First Aid Guide
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
MARPOL: International Convention for the Prevention of Marine Pollution from Ships
IBC: Intermediate Bulk Container
VOC: Volatile Organic Compounds
SVHC: Substance of Very High Concern

Relevant H and EUH statements (number and full text)

H241	Heating may cause a fire or explosion.
H242	Heating may cause a fire.
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.

Further Information

These data describe only the safety requirements for the product(s) and are based on our present knowledge. However, they do not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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