

Printing date 26.07.2012 V - 6 Revision: 26.07.2012

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

- · Product identifier
- · Trade name: BPO-Paste rot
- · Relevant identified uses of the substance or mixture and uses advised against Not determined
- · Application of the substance / the preparation Hardening agent/ Curing agent
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

A.Förster & Co.KG

Esinger Steinweg 50

25436 Uetersen

Phone: +49 (0) 4122-3682; e-mail: info@foerster-co.de

- · Further information obtainable from: Phone: +49 (0) 4122-3682; e-mail: info@foerster-co.de
- · Emergency telephone number:

Giftinformationszentrum (GIZ)-Nord, Goettingen, Deutschland

Phone: +49 (0)551 19240, +49 (0)551 383180

2 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC

X

Xi; Irritant

R36: Irritating to eyes.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



O; Oxidising

R7: May cause fire.



N; Dangerous for the environment

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- · Label elements
- · Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:







Xi Irritant

O Oxidising

N Dangerous for the environment

· Hazard-determining components of labelling:

dibenzoyl peroxide

- · Risk phrases:
- 7 May cause fire.
- 36 Irritating to eyes.
- 43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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· Safety phrases:

- 2 Keep out of the reach of children.
- 3/7 Keep container tightly closed in a cool place.
- 14 Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds 8such as accelerator, dessicative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 50 Do not mix with accelerators or reducing agents.

· Other hazards

Flammable.

Risk of fire on contact with combustible substances or other substances effective in promoting the decomposition reaction.

Fire propagating effect due to oxygen release.

Thermal decomposition with temperatures above 50°C (SADT)

Pls. refer to section 10

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 94-36-0	dibenzoyl peroxide	50-100%
EINECS: 202-327-6	Xi R36; Xi R43; ₩ E R3; 👩 O R7; 🐈 N R50/53	
Reg.nr.: 01-2119511472-50	🔆 🍪 Org. Perox. B, H241; 😉 Aquatic Acute 1, H400; 🕦 Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 131-11-3	dimethyl phthalate	10-25%
EINECS: 205-011-6	substance with a Community workplace exposure limit	
Reg.nr.: 01-2119437229-36		

[·] Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- · Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

Take affected persons out of danger area and lay down.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Immediately remove any clothing soiled by the product.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Do not induce vomiting; call for medical help immediately.

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- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the product promotes combustion.

May decompose explosively in absence of fire due to formation of vapour-air-mixture.

- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

· Additional information

Remove undamaged containers from the danger zone.

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use suitable respiratory protective device in case of insufficient ventilation.

Avoid contact with the eyes and skin.

Keep away from ignition sources.

Pls. refer to section 10

· Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Collect with an inert, non-combustible, absorbent material (i.e. sand, diatomaceous earth, acid binder, universal binder).

Do not seal receptacle gas tight.

Pls. refer to section 10

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Precautions for safe handling

Keep receptacles tightly sealed.

Open and handle receptacle with care.

Do not return unused material to original containers – decomposition hazard!

Restrict the quantity stored at the work place.

Resistant to inert materials only.

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Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.

Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds 8such as accelerator, dessicative, metal soaps). Avoid naked flames, sparks, other ignition sources and sunlight.

Avoid any direct contact with accelerators.

Weigh out and mix separately when processing polyester resins.

Avoid storage in containers with an airtight closure to prevent hazardous pressure build-up due to an eventual decomposition.

Avoid contact with the eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Do not inhale gases / fumes / aerosols.

Adhere to the workplace limit values and / or other threshold values.

· Information about fire - and explosion protection:

Protect from heat.

Keep ignition sources away - Do not smoke.

Prevent impact and friction.

Thermal decomposition with temperatures above 50°C under formation of explosive vapours/gases

Avoid naked flames, sparks, other ignition sources and sunlight.

Protect against electrostatic charges.

Anti-explosion protection required

Fumes can combine with air to form an explosive mixture.

Fire propagating effect due to oxygen release.

Keep apart from incompatible substances, dirt and high temperatures.

Pls. refer to section 10

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Prevent any seepage into the ground.

Adhere to the provisions of the Law on Water Protection.

Use only receptacles specifically permitted for this substance/product.

· Information about storage in one common storage facility:

Keep apart from other chemicals, in particular from accelerators.

Store away from foodstuffs.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from contamination.

Store under lock and key and out of the reach of children.

- · Maximum storage temperature: +25°C
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical facilities: No further data; see item 7.
- · Control parameters
- · Ingredients with limit values that require monitoring at the workplace:

94-36-0 dibenzoyl peroxide

WEL (Great Britain) Long-term value: 5 mg/m³

131-11-3 dimethyl phthalate

WEL (Great Britain) Short-term value: 10 mg/m³

Long-term value: 5 mg/m³

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DNELs			
94-36-0 di	benzoyl peroxide		
Oral	Long-term exposure - systemic effects	1.65 mg/kg bw/day (general population)	
Dermal	Long-term exposure - systemic effects	3.3 mg/kg bw/day (general population)	
		6.6 mg/kg bw/day (worker)	
Inhalative	Long-term exposure - systemic effects	2.9 mg/m³ (general population)	
		$11.75 \text{ mg/m}^3 \text{ (worker)}$	

· PNECs

94-36-0 dibenzoyl peroxide

PNEC STP $0.35 \, mg/l \, (-)$ PNEC aqua 0.000602 mg/l (freshwater) 0.0000602 mg/l (marine water) 0.000602 mg/l (intermittent releases) PNEC sediment | 0.338 mg/kg (freshwater) 0.0338 mg/kg (marine water) PNEC soil 0.0758 mg/kg (soil dw) 6.67 mg/kg (food)

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

· Respiratory protection:

Adhere to the workplace limit values and / or other threshold values.

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter A/P2

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Synthetic rubber gloves

Neoprene gloves

· Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Safety data sheet according to 1907/2006/EC, Article 31

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· Eye protection:



Tightly sealed goggles

· **Body protection:** Protective work clothing

9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Pasty
Colour: Red
Odour: Light

· Change in condition

Melting point/Melting range: - 10°C

Boiling point/Boiling range: Undetermined.

• Flash point: $> 50^{\circ}C$

· Ignition temperature: Not applicable

• Decomposition temperature: 50°C (SADT)

• Self-igniting: Pls. refer to section 10

• Danger of explosion: Pls. refer to section 10

• Density at 20 °C: $\sim 1.2 \text{ g/cm}^3$

· Solubility in / Miscibility with

water: Not miscible or difficult to mix.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Resistant to inert materials only.

Suitable materials: Stainless steel (DIN 1.4571), PVC, polyethylene, glass-lined apparatus.

Thermal decomposition with temperatures above 50°C (SADT)

To avoid thermal decomposition do not overheat.

· Possibility of hazardous reactions

Thermal decomposition or direct contact with numerous additives, such as reducing agents (i.e. amine accelerator), heavy metal compounds (in particular cobalt accelerators), acids and alkaline solutions, may lead to hazardous, autoaccelerating decomposition reactions, and possibly, to explosion or fire.

- · Conditions to avoid No further relevant information available.
- · Incompatible materials:

Keep apart from dirt, rust, chemicals, especially reducing substances, acids, alkaline solutions, amines and heavy metal compounds 8such as accelerator, dessicative, metal soaps)

Avoid any direct contact with accelerators.

· Hazardous decomposition products:

Formation of various organic degradation products and inflammable and explosive vapours/gases upon decomposition.

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Danger of forming toxic pyrolysis products.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values relevant for classification:

94-36-0 dibenzoyl peroxide

OralLD50>5000 mg/kg (rat)InhalativeLC50> 24300 mg/m³ (rat)

- · Primary irritant effect:
- · on the eye: Irritating effect.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· Sensitisation May cause sensitisation by skin contact.

12 Ecological information

· Toxicity

· Aquanc	toxicity:	
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94-36-0 dibenzoyl peroxide

EC50 35 mg/l (bacteria)

EC50/48h | 0.11 mg/l (daphnia magna)

EC50/72h | 0.06 mg/l (Pseudokirchneriella subcapitata)

LC50/96h | 0.06 mg/l (oncorhynchus mykiss)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:

· Bioaccumulative potential

94-36-0 dibenzoyl peroxide

BCF 66.6 (-)

log Pow 3.2 (-) (OECD 117)

- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Do not allow product to reach ground water, water course or sewage system.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Disposal must be made according to official regulations.

Dilute product with suitable inert liquid to a peroxide concentration below 10% and subsequently dispose of according to the refuse disposal act.

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· Waste disposal key:

The waste codes given above are to be considered recommendations; because of regional and industrial sector specific features, application of different waste codes is possible.

· European waste catalogue

16 05 06* laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

Transport information	
· UN-Number · ADR, IMDG, IATA	UN3108
· UN proper shipping name · ADR	3108 ORGANIC PEROXIDE TYPE E, SOLID (dibenz peroxide), ENVIRONMENTALLY HAZARDOUS
· IMDG	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxid MARINE POLLUTANT
· IATA	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
· Transport hazard class(es)	
· ADR, IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
· Class	5.2 Organic peroxides.
· Label	5.2
· Packing group · ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user · EMS Number:	Warning: Organic peroxides. F-J,S-R
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	
\cdot ADR	
· Limited quantities (LQ)	500 g
· Tunnel restriction code	D



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15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · National regulations:
- · Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

- H241 Heating may cause a fire or explosion.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.

P. Carlon and A. Carlon Land Control of the Control

- R3 Extreme risk of explosion by shock, friction, fire or other sources of ignition.
- R36 Irritating to eyes.
- *R43 May cause sensitisation by skin contact.*

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R7 May cause fire.

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.

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