

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

Printing date 25.11.2022

Rev. n. 3

Revision: 25.11.2022

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

· 1.1 Product identifier

· Trade name: **BPO paste**
PERVELOX EVO 50 - E02

· 1.2 Relevant identified uses of the substance or mixture and uses advised against

Formulation and packing into small containers. Industrial use as polymerisation initiator for production of polymers, and as cross-linking agent for the manufacture of resins. Professional use as hardener for coating resins.

[SU 9, SU 10, SU12, SU 22] [PROC 3, PROC 5, PROC 7, PROC 8a, PROC 8b, PROC 9, PROC 10, PROC 11, PROC 13, PROC 14, PROC 19, PROC 21]

· Application of the substance / the mixture

Dibenzoyl peroxide, pasta
 Hardening agent / Curing agent
 Polymerisation catalyst

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

RAICHEM S.p.A.
 Via Don Grazioli, 53 - Località Gavassa
 42122 Reggio Emilia (Italy)
 Tel. +39 0522 511182 - Fax +39 0522 920616

· Further information obtainable from: RAICHEM S.p.A. - E-mail: laboratorio@raichem.it

· 1.4 Emergency telephone number:

UNITED KINGDOM

· National Poisons Information Service (NPIS) - Tel: +44 844 8920111

In an emergency, if the patient has collapsed or is not breathing properly, call 999.

For medical advice contact:

- NHS 111 in England: 111

- NHS 24 in Scotland: 111

- NHS Direct in Wales: 111 or 0845 4647

RAICHEM S.p.A. - Technical support: Tel. +39 0522 511182 (Monday-Friday: 8.00-12.00 AM, 2.00-6.00 PM)

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Org. Perox. E H242 Heating may cause a fire.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

· 2.2 Label elements

· Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

· Hazard pictograms



GHS02 GHS07 GHS09

· Signal word Warning

· Hazard-determining components of labelling:

dibenzoyl peroxide

· 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.

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· **Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P280 Wear protective gloves / eye protection / face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
 · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Components:**

CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0	dibenzoyl peroxide ⚠️ ⚠️ Org. Perox. B, H241; ⚠️ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); ⚠️ Eye Irrit. 2, H319; Skin Sens. 1, H317	45-52%
CAS: 131-11-3 EINECS: 205-011-6	dimethyl phthalate substance with a Community workplace exposure limit	25-35%
CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1	ethanediol ⚠️ STOT RE 2, H373; ⚠️ Acute Tox. 4, H302	0.1-9.9%

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **After inhalation:**

Supply fresh air and to be sure call for a doctor.
 In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**

If skin irritation continues, consult a doctor.
 Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **After swallowing:** Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
 Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture**

In case of fire, the following can be released:

Carbonic anhydride (CO₂)

Carbon monoxide (CO)

Benzoic acid

Benzene

Biphenyl

Phenyl benzoate

Under certain fire conditions, traces of other toxic gases cannot be excluded.

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· **5.3 Advice for firefighters**

· **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Mouth respiratory protective device.

Wear suitable fire protection equipment.

· **Additional information**

Cool endangered receptacles with water spray.

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

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

· **6.2 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.

· **6.3 Methods and material for containment and cleaning up:**

Pick up mechanically.

Do not allow to dry out

Ensure adequate ventilation.

· **6.4 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.

* SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

Keep away from heat and direct sunlight.

Protect against electrostatic charges.

· **Information about fire - and explosion protection:**

Substance/product is oxidising when dry.

Keep ignition sources away - Do not smoke.

· **7.2 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.

· **Information about storage in one common storage facility:**

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

· **Further information about storage conditions:**

Store receptacle in a well ventilated area.

Prevent from drying out.

Keep container tightly sealed.

Protect from heat and direct sunlight.

The product, stored in the original containers, away from sunlight, maintains its properties for 12 months from the production date.

· **Recommended storage temperature:** +5°C / +25°C

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 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/m ³
PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 5 mg/m ³
TLV (USA)	Long-term value: 5 mg/m ³

131-11-3 dimethyl phthalate

WEL (Great Britain)	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³
PEL (USA)	Long-term value: 5 mg/m ³
REL (USA)	Long-term value: 5 mg/m ³
TLV (USA)	Long-term value: 5 mg/m ³

107-21-1 ethanediol

IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin
WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour
TLV (USA)	Short-term value: 10** mg/m ³ , 50* ppm Long-term value: 25* ppm *vapor fraction:**inh. fraction, aerosol only
WEEL (USA)	I (2)

Regulatory information

WEL (Great Britain): EH40/2020
 PEL (USA): Guide to Occupational Exposure Values (OSHA PELs)
 REL (USA): Guide to Occupational Exposure Values (NIOSH RELs)
 TLV (USA): Guide to Occupational Exposure Values (ACGIH)
 IOELV (EU): (EU) 2019/1831
 WEEL (USA): Guide to Occupational Exposure Values (AIHA WEELs)

DNELs

94-36-0 dibenzoyl peroxide

Oral	DNEL / Long term exposure - Systemic effects	2 mg/kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	13.3 mg/kg bw/d (workers)
	DNEL / Long term exposure - Local effects	0.034 mg/kg (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	39 mg/m ³ (workers)

131-11-3 dimethyl phthalate

Oral	DNEL / Long term exposure - Systemic effects	9.4 mg/kg bw/d (general population)
Dermal	DNEL / Long term exposure - Systemic effects	67.5 mg/kg bw/d (general population)
		135 mg/kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Systemic effects	16.3 mg/m ³ (general population)
		66.1 mg/m ³ (workers)

107-21-1 ethanediol

Dermal	DNEL / Long term exposure - Systemic effects	53 mg/kg bw/d (general population)
Inhalative		106 mg/kg bw/d (workers)
	DNEL / Long term exposure - Local effects	7 mg/m ³ (general population)
		35 mg/m ³ (workers)

PNECs

94-36-0 dibenzoyl peroxide

PNEC / aqua	0.00002 mg/l (freshwater)
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PNEC / sediment	0.000602 mg/l (intermittent releases)
	0.000002 mg/l (marine water)
PNEC / soil	0.0127 mg/kg dw (freshwater)
	0.00127 mg/kg dw (marine water)
PNEC / STP	0.0025 mg/kg dw
	0.35 mg/l (sewage treatment plant)
131-11-3 dimethyl phthalate	
PNEC / aqua	0.192 mg/l (freshwater)
	0.39 mg/l (intermittent releases)
	0.0192 mg/l (marine water)
PNEC / sediment	1.3 mg/kg dw (freshwater)
	0.13 mg/kg dw (marine water)
PNEC / soil	3.16 mg/kg dw
PNEC / STP	4 mg/l (sewage treatment plant)
107-21-1 ethanediol	
PNEC / aqua	10 mg/l (freshwater)
	10 mg/l (intermittent releases)
	1 mg/l (marine water)
PNEC / sediment	37 mg/kg dw (freshwater)
	3.7 mg/kg dw (marine water)
PNEC / soil	1.53 mg/kg dw
PNEC / STP	199.5 mg/l (sewage treatment plant)

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**
 - Do not eat, drink, smoke or sniff while working.
 - The usual precautionary measures are to be adhered to when handling chemicals.
 - Keep away from foodstuffs, beverages and feed.
 - Immediately remove all soiled and contaminated clothing
 - Wash hands before breaks and at the end of work.
 - Do not inhale gases / fumes / aerosols.
 - Avoid contact with the eyes and skin.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Hand protection**



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**

Neoprene gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.14 mm

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.

· **Penetration time of glove material**

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

For the mixture of chemicals mentioned, the penetration time has to be at least 30 minutes (Permeation according to EN 374 Part 3: Level 2).

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· Eye/face protection



Tightly sealed goggles

· Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

· Physical state	Solid
· Colour:	Different according to colouring
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	0 °C
· Boiling point or initial boiling point and boiling range	Not applicable. Prior to or during boiling decomposition occurs. May cause fire.
· Flammability	
· Lower and upper explosion limit	
· Lower:	Not applicable.
· Upper:	Not applicable.
· Flash point:	Not applicable. Above the SADT value.
· Decomposition temperature:	SADT = 50 °C SADT: Self Accelerating Decomposition Temperature 4-5
· pH at 20 °C	
· Viscosity:	
· Kinematic viscosity	172000-754000 m ² /s
· Dynamic:	(Brookfield, 20°C) 215000-867000 mPa·s
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not applicable.
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density at 20 °C:	1.15-1.25 g/cm ³
· Vapour density	Not applicable.
· Particle characteristics	Pasty solid

9.2 Other information

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Auto-ignition temperature:	Not applicable.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined.

Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void

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· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides Heating may cause a fire.	
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Exothermic thermal decomposition.
Visible decomposition with spontaneous ignition on heating.
SADT = 50°C
SADT (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport.
A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT.
Contact with incompatible substances can cause decomposition at or below the SADT.
- **10.3 Possibility of hazardous reactions**
Reacts with reducing agents.
Reacts with heavy metals.
Reacts with alkali, amines and strong acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Reducing agents like amines, acids, alkali, compounds based on heavy metals (p.e. accelerators)
- **10.6 Hazardous decomposition products:**
Benzoic acid
Benzene
Biphenyl
Phenyl benzoate

* 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.

· **LD/LC50 values relevant for classification:**

94-36-0 dibenzoyl peroxide		
Oral	LD0	>2,000 mg/kg (mouse) (OECD TG 401: Acute Oral Toxicity)
Inhalative	LC0	24.3 mg/l (rat) (OECD TG 403: Acute Inhalation Toxicity)
131-11-3 dimethyl phthalate		
Oral	LD50	8,200 mg/kg (rat)
Dermal	LD50	12,000 mg/kg (rabbit)
107-21-1 ethanediol		
Oral	LD50	7,712 mg/kg (rat)
Dermal	LD50	>3,500 mg/kg (rabbit)
Inhalative	LC50 / 6h	>2.5 mg/l (mouse)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.

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- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** 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.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

94-36-0 dibenzoyl peroxide

LC50 / 96h	0.0602 mg/l (fish - <i>Oncorhynchus mykiss</i>) (OECD TG 203: Fish, Acute Toxicity Test)
EC50 / 48h	0.11 mg/l (crustacea - <i>Daphnia magna</i>) (OECD TG 202: <i>Daphnia</i> sp. Acute Immobilisation Test)
ErC50 / 72h	0.0711 mg/l (algae - <i>Pseudokirchneriella subcapitata</i>) (OECD TG 201: Alga, Growth Inhibition Test)
M Factor Acute	10
NOEC / 96h	0.0316 mg/l (fish - <i>Oncorhynchus mykiss</i>) (OECD TG 203: Fish, Acute Toxicity Test)
EC10 / 21d	0.001 mg/l (crustacea - <i>Daphnia magna</i>) (OECD TG 211: <i>Daphnia magna</i> Reproduction Test)
NOEC / 72 h	0.02 mg/l (algae - <i>Pseudokirchneriella subcapitata</i>) (OECD TG 201: Alga, Growth Inhibition Test)
M Factor Chronic	10

131-11-3 dimethyl phthalate

LC50 / 96h	39 mg/l (fish - <i>Pimephales promelas</i>)
EC50 / 48h	>52 mg/l (crustacea - <i>Daphnia magna</i>)
ErC50 / 72h	259.76 mg/l (algae - <i>Scenedesmus subspicatus</i>)
NOEC / 21d	9.6 mg/l (crustacea - <i>Daphnia magna</i>)

107-21-1 ethanediol

LC50 / 96h	72,860 mg/l (fish - <i>Pimephales promelas</i>)
EC50 / 48h	>100 mg/l (crustacea - <i>Daphnia magna</i>) (OECD TG 202: <i>Daphnia</i> sp. Acute Immobilisation Test)
ErC50 / 96h	6,500-13,000 mg/l (algae - <i>Pseudokirchneriella subcapitata</i>)
NOEC / 7d	8,590 mg/l (crustacea - <i>Ceriodaphnia dubia</i>)

· **12.2 Persistence and degradability**

94-36-0 dibenzoyl peroxide

Ready Biodegradability in water / 28d 71 % (OECD TG 301 D: Ready Biodegradability: Closed Bottle Test)

131-11-3 dimethyl phthalate

Ready Biodegradability in water / 11d 91 % (OECD TG 301 E: Ready biodegradability: Modified OECD Screening Test)

107-21-1 ethanediol

Ready Biodegradability in water / 10d 90-100 % (OECD TG 301A: Ready Biodegradability: DOC Die Away Test)

· **12.3 Bioaccumulative potential**

94-36-0 dibenzoyl peroxide

Log Kow 3.2 / (22°C) (OECD TG 117: Partition Coefficient (n-octanol / water), HPLC Method))

131-11-3 dimethyl phthalate

Log Kow 1.54 / (25°C) (OECD TG 107: Partition Coefficient (n-octanol / water), Shake Flask Method)

BCF 57 / 21d (fish - *Lepomis macrochirus*)

· **12.4 Mobility in soil**

94-36-0 dibenzoyl peroxide

Log Koc 3.8 / (22°C) (OECD TG 121: (Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC))

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Log Koc 1.5

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- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
 - **Remark:** Very toxic for fish
 - **Additional ecological information:**
 - **General notes:**
 - Very toxic for aquatic organisms
 - Also poisonous for fish and plankton in water bodies.
 - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.

SECTION 13: Disposal considerations

- **13.1 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.
 - **Uncleaned packaging:**
 - **Recommendation:**
 - Disposal must be made according to official regulations.
 - Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3108
· 14.2 UN proper shipping name · ADR · IMDG, IATA	ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID (dibenzoyl peroxide)
· 14.3 Transport hazard class(es) · ADR	 
· Class · Label	5.2 Organic peroxides. 5.2
· IMDG, IATA	
· Class · Label	5.2 Organic peroxides. 5.2
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR):	Yes Symbol (fish and tree)
· 14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Organic peroxides. -

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· EMS Number:	F-J,S-R
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. SG72 See 7.2.6.3.2.
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	500 g
· Transport category	2
· Tunnel restriction code	D
· IMDG	
· Limited quantities (LQ)	500 g
· UN "Model Regulation":	UN 3108 ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE), 5.2, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 1907/2006 (UK REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)
Regulation (EC) No 1272/2008 (GB CLP - Classification, Labelling and Packaging of substances and mixtures)
- **Directive 2012/18/EU (Seveso)**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **Seveso category**
P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
E1 Hazardous to the Aquatic Environment
 - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 50 t
 - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **15.2 Chemical safety assessment:**
A Chemical Safety Assessment has been carried out for
Dibenzoyl peroxide - CAS 94-36-0

SECTION 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.
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.
- **(↔1.2) Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Sector of Use**
SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU12 Manufacture of plastics products, including compounding and conversion
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Process category**
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC5 Mixing or blending in batch processes

(Contd. on page 11)

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

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Trade name: BPO paste
PERVELOX EVO 50 - E02

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PROC7 Industrial spraying
 PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
 PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
 PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
 PROC10 Roller application or brushing
 PROC11 Non industrial spraying
 PROC13 Treatment of articles by dipping and pouring
 PROC14 Tableting, compression, extrusion, pelletisation, granulation
 PROC19 Manual activities involving hand contact
 PROC21 Low energy manipulation and handling of substances bound in/on materials or articles

· Environmental release category

ERC2 Formulation into mixture
 ERC6d Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article)
 ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)
 ERC8e Widespread use of reactive processing aid (no inclusion into or onto article, outdoor)

· Contact: Raichem S.p.A.

· Abbreviations and acronyms:

UK REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
 GB CLP: Classification, Labelling and Packaging
 TLV: Threshold Limit Value
 TLV-TWA: Threshold Limit Value - Time Weighted Average
 TLV-STEL: Threshold Limit Value - Short Term Exposure Limit
 PEL: Permissible Exposure Limits (Limiti di esposizione consentiti)
 REL: Recommended Exposure Limits (Limiti di esposizione raccomandati)
 IOELV: Indicative Occupational Exposure Limit Value
 WEELs: Workplace Environmental Exposure Limits (Limiti di esposizione ambientale sul posto di lavoro)
 BEI: Biological Exposure Indices
 LD50: Lethal dose, 50 percent
 LC50: Lethal Concentration, 50 percent
 LC0: Lethal Concentration 0 - no effect
 Kow: Octanol-Water partition coefficient
 Koc: Organic Carbon partition Coefficient
 BCF: BioConcentration Factor
 LC50: LC50: Lethal Concentration, 50 percent
 EC50: Effective Concentration, 50 percent
 EC10: Effective Concentration, 10 percent
 ErC50: Effective Concentration, 50 percent, growth rate
 NOEC: No-Observed Effect Concentration.
 WGK: Wassergefährdungsklasse - Water hazard class [Germany]
 ADR: Accord relatif au transport international 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
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (UK REACH)
 PNEC: Predicted No-Effect Concentration (UK REACH)
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Org. Perox. B: Organic peroxides – Type B
 Org. Perox. E: Organic peroxides – Type E/F
 Acute Tox. 4: Acute toxicity – Category 4
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

· * Data compared to the previous version altered.