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**: PERVELOX EVO 50  
E02**

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 ]

Dibenzoyl peroxide, paste

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- Firenze - Azienda Ospedaliero-Universitaria "Careggi" U.O. Tossicologia Medica - Tel. +39 055 7947819
- Bergamo - Azienda Ospedaliera Papa Giovanni XXIII - Tel. +39 800 883300
- Roma - CAV Policlinico "Umberto I" - Tel. 06 49978000
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E	H242
2A	H319
1	H317
	1 H400

(GHS).



GHS02 GHS07 GHS09

dibenzoyl peroxide

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( 1)

PBT ( ) vPvB ( )

PBT:  
vPvB:

**3 /**

94-36-0	dibenzoyl peroxide	1, H317; H241; H400 (M=10); H200; 2A, H319;	45-52%
131-11-3	dimethyl phthalate	5, H303	25-35%
107-21-1	ethanediol	4, H302; 5, H313	5-10%

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( ) 2)

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CO2,

Carbonic anhydride (CO )

( ) (CO)

Benzoic acid

Benzene

Biphenyl

Phenyl benzoate

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/ /

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: +5°C / +25°C

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<b>94-36-0 dibenzoyl peroxide</b>	
AGW (DE)	: 5 E /m <sup>3</sup> 1(l);DFG
<b>131-11-3 dimethyl phthalate</b>	
PDK (RU)	: 1 /m <sup>3</sup> : 0,3 /m <sup>3</sup> +
<b>107-21-1 ethanediol</b>	
PDK (RU)	: 10 /m <sup>3</sup> : 5 /m <sup>3</sup> +
IOELV (EU)	: 104 /m <sup>3</sup> , 40 ppm : 52 /m <sup>3</sup> , 20 ppm
AGW (DE)	: 26 /m <sup>3</sup> , 10 ppm Skin 2(l);DFG, EU, H, Y, 11

AGW (DE): TRGS 900

PDK (RU):

IOELV (EU): (EU) 2017/164

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<b>DNEL</b>		
<b>94-36-0 dibenzoyl peroxide</b>		
( )	DNEL / Long term exposure - Systemic effects	2 / bw/d (general population)
( )	DNEL / Long term exposure - Systemic effects	13,3 / bw/d (workers)
( )	DNEL / Long term exposure - Systemic effects	39 /m <sup>3</sup> (workers)
<b>PNEC</b>		
<b>94-36-0 dibenzoyl peroxide</b>		
PNEC / aqua	0,00002 / (freshwater)	
	0,000602 / (intermittent releases)	
	0,000002 / (marine water)	
PNEC / sediment	0,0127 / dw (freshwater)	

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PNEC / soil	0,00127 / dw (marine water)
PNEC / STP	0,0025 / dw
	0,35 / (sewage treatment plant)



<b>9</b>
<p>pH:</p>

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Benzoic acid  
Benzene  
Biphenyl  
Phenyl benzoate

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<b>LD/LC50 ( / ),</b>	
<b>94-36-0 dibenzoyl peroxide</b>	
( )	LD0 2000 / (rat)
( )	LC0 24,3 / (rat)

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<b>94-36-0 dibenzoyl peroxide</b>	
LC50 / 96 .	0,0602 / (fish - <i>Oncorhynchus mykiss</i> ) (OECD TG 203)
EC50 / 48 .	0,110 / (crustacea - <i>Daphnia magna</i> ) (OECD TG 202)
ErC50 / 72 .	0,0711 / (algae - <i>Pseudokirchneriella subcapitata</i> ) (OECD TG 201)
M Factor Acute	10
NOEC / 96 .	0,0316 / (fish)
EC10 / 21d	0,001 / (crustacea - <i>Daphnia magna</i> ) (OECD TG 211)
NOEC / 72 .	0,02 / (algae - <i>Pseudokirchneriella subcapitata</i> )
M Factor Chronic	10

<b>94-36-0 dibenzoyl peroxide</b>	
Ready Biodegradability in water / 28d	71 % (OECD TG 301 D)

<b>94-36-0 dibenzoyl peroxide</b>	
Log Kow	3,2 (OECD TG 117)

<b>94-36-0 dibenzoyl peroxide</b>	
Log Koc	3,8 (OECD TG 121)

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PBT ( )

( ) vPvB ( )

- PBT:
- vPvB:

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· UN	UN3108
· ADR, IMDG, IATA	
· ADR	
· IMDG	ORGANIC PEROXIDE TYPE E, SOLID, MARINE POLLUTANT
· IATA	ORGANIC PEROXIDE TYPE E, SOLID
· ADR, IMDG	
	
	5.2
	5.2
· IATA	
	
· Class	5.2
· Label	5.2
· ADR, IMDG, IATA	
(ADR):	( )
EMS:	F-J,S-R
· Stowage Category	D

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· Stowage Code · Segregation Code	SW1 Protected from sources of heat. SG35 Stow "separated from" acids. SG36 Stow "separated from" alkalis.
II MARPOL73/78 (	
) IBC Code (	
/ :	
· ADR · (LQ)	500 2 D
· IMDG · Limited quantities (LQ)	500
· UN "Model Regulation":	UN 3108 , 5.2,

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Regulation (EC) No 1907/2006 (REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals)  
 Regulation (EC) No 1272/2008 (CLP - Classification, Labelling and Packaging of substances and mixtures)  
 Compilation of Safety Data Sheet: Reg.UE n. 830/2015 (amending Reg.EC n.1907/2006, Annex II)

(GHS).



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- 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)
  
- 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
- 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
  
- 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)

: Raichem S.r.l.

- 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)
- 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
- IOELV: Indicative Occupational Exposure Limit Value
- BEI: Biological Exposure Indices
- LD50: Lethal dose, 50 percent
- LC50: Lethal Concentration, 50 percent
- Kow: Octanol-Water partition coefficient
- BCF: BioConcentration Factor
- LC50: LC50: Lethal Concentration, 50 percent
- EC50: Effective Concentration, 50 percent
- ErC50: Effective Concentration, 50 percent, growth rate
- WGK: Wassergefährdungsklasse - Water hazard class [Germany]
- 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
- ACGIH: American Conference of Governmental Industrial Hygienists [USA]
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances

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CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

: Explosives – Unstable explosive

: Organic peroxides – Type B

E: Organic peroxides – Type E/F

4: Acute toxicity – Category 4

5: Acute toxicity – Category 5

2A: Serious eye damage/eye irritation – Category 2A

1: Skin sensitisation – Category 1

1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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