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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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- Milano - Ospedale Niguarda Ca' Granda - Tel. +39 02 66101029
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- Firenze - Azienda Ospedaliero-Universitaria "Careggi" U.O. Tossicologia Medica - Tel. +39 055 7947819
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- Roma - CAV Policlinico "Umberto I" - Tel. 06 49978000
- Roma - CAV Policlinico "A. Gemelli" - Tel. 06 3054343
- Roma - CAV "Ospedale Pediatrico Bambino Gesù" - Tel. +39 06 68593726
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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 	, H241;  1, 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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(3)

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CO₂,

Carbonic anhydride (CO₂)

() (CO₂)

Benzoic acid

Benzene

Biphenyl

Phenyl benzoate

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13.

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() 4)

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(3)

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: +5°C / +25°C

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94-36-0 dibenzoyl peroxide	
AGW (DE)	: 5 E /m ³ 1(l);DFG
131-11-3 dimethyl phthalate	
PDK (RU)	: 1 /m ³ : 0,3 /m ³ +
107-21-1 ethanediol	
PDK (RU)	: 10 /m ³ : 5 /m ³ +
IOELV (EU)	: 104 /m ³ , 40 ppm : 52 /m ³ , 20 ppm
AGW (DE)	: 26 /m ³ , 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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DNEL		
94-36-0 dibenzoyl peroxide		
()	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 ³ (workers)
PNEC		
94-36-0 dibenzoyl peroxide		
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)



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<p>pH:</p>

(6)

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·	:	/	:	:
·	:	/	:	:
·	:		:	Above the SADT value.
·	:	(,	:
·	:)	:	:
·	:		:	SADT = 50°C
·	:		:	
·	:		:	
·	:		:	
·	:		:	
·	:	20 °C:	:	1,15-1,25 /cm³
·	:		:	
·	:	/	:	
·	:	(n-	/):
·	:		:	
·	:		:	
·	:		:	
·	:	VOC (EC)	:	0,00 %
·	:		:	

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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.

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(6)

Benzoic acid
 Benzene
 Biphenyl
 Phenyl benzoate

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

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94-36-0 dibenzoyl peroxide	
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

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

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

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

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PBT ()

() vPvB ()

- PBT:
- vPvB:

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· UN	
· ADR, IMDG, IATA	UN3108
· 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: ():	-
· Stowage Category	F-J,S-R D

() 9)

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(8)	
· 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).



dibenzoyl peroxide

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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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