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# 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, paste Hardening agent / Curing agent

Polymerisation catalyst

· 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Rustins Ltd

51 Waterloo Road, London NW2 7TX

United Kingdom

Tel. +44 (0)20 8450 4666 - Fax +44 (0)20 8452 2008

- · Further information obtainable from: Rustins Ltd. E-mail: rustins@rustins.co.uk
- · 1.4 Emergency telephone number:

UNITED KINGDOM

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

Rustins Ltd - Technical support: Tel. (0)20 8450 4666 (Monday-Friday: 8:30-16:00 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 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.

## 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.



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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 Reg.nr.: 01-2119511472-50-XXXX	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 Reg.nr.: 01-2119437229-36-XXXX	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 Reg.nr.: 01-2119456816-28-XXXX	ethanediol STOT RE 2, H373;  Acute Tox. 4, H302	0.1-9.9%

<sup>·</sup> 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:

CO<sub>2</sub> 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

Biphenvl

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.

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 I	Ingredients with limit values that require monitoring at the workplace:		
بر 94-36-0 dibenzoyl	94-36-0 dibenzoyl peroxide		
WEL (Great Britain)	Long-term value: 5 mg/m³		
PEL (USA)	Long-term value: 5 mg/m³		
REL (USA)	Long-term value: 5 mg/m³		
TLV (USA)	Long-term value: 5 mg/m³		
131-11-3 dimethyl <sub> </sub>	phthalate		
WEL (Great Britain)	Short-term value: 10 mg/m³ Long-term value: 5 mg/m³		
PEL (USA)	Long-term value: 5 mg/m³		
REL (USA)	Long-term value: 5 mg/m³		
TLV (USA)	Long-term value: 5 mg/m³		
107-21-1 ethanedio	il		
IOELV (EU)	Short-term value: 104 mg/m³, 40 ppm Long-term value: 52 mg/m³, 20 ppm Skin		
WEL (Great Britain)	Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm Sk *particulate **vapour		
TLV (USA)	Short-term value: 10** mg/m³, 50* ppm Long-term value: 25* ppm *vapor fraction:**inh. fraction, aerosol only		
WEEL (USA)	I (2)		

### Regulatory information

PNEC / aqua

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

0.00002 mg/l (freshwater)

WEEL	(USA): Guide to Occupational Exposure Values	(AIHA WEELs)
· DNELs		
94-36-0 di	benzoyl 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/m³ (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/m³ (general population)
		66.1 mg/m³ (workers)
107-21-1	ethanediol	
Dermal	DNEL / Long term exposure - Systemic effects	53 mg/kg bw/d (general population)
		106 mg/kg bw/d (workers)
Inhalative	DNEL / Long term exposure - Local effects	7 mg/m³ (general population)
		35 mg/m³ (workers)
·PNECs		
94-36-0 dibenzoyl peroxide		

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	0.000602 mg/l (intermittent releases)
	0.000002 mg/l (marine water)
PNEC / sediment	0.0127 mg/kg dw (freshwater)
	0.00127 mg/kg dw (marine water)
PNEC / soil	0.0025 mg/kg dw
PNEC / STP	0.35 mg/l (sewage treatment plant)
131-11-3 dimethy	yl 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 ethaned	diol
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 trough 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

Self-heating substances and mixtures

in contact with water

· Substances and mixtures, which emit flammable gases

· Body protection: Light weight protective clothing

# SECTION 9: Physical and chemical properties

SECTION 9: Physical and chemical properties	
· 9.1 Information on basic physical and chemical properties	s
General Information	
· Physical state	Solid
· Colour:	Different according to colouring
· Odour:	Characteristic
******	
Odour threshold:	Not determined. 0 °C
Melting point/freezing point:	* *
Boiling point or initial boiling point and boiling range	Not applicable.
Flammability	May cause fire.
Lower and upper explosion limit	
· Lower:	Not applicable.
Upper:	Not applicable.
· Flash point:	Not applicable.
	Above the SADT value.
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	SADT = 50°C
∙ pH at 20 °C	4-5
· Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Insoluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	23 hPa (7732-18-5 water)
Density and/or relative density	·
Density at 20 °C:	1.15-1.25 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
· Form:	Pasty
Important information on protection of health and	1 doly
environment, and on safety.	
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	Troduct does not present an explosion nazara.
· Evaporation rate	Not determined.
<u>'</u>	Not dotominod.
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

Void

Void



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· 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.

 $SADT = 50^{\circ}C$ 

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 di	94-36-0 dibenzoyl peroxide		
Oral	LD0	2,000 mg/kg (rat)	
Inhalative	LC0	24.3 mg/l (rat)	
131-11-3	dimethyl pl	hthalate	
Oral	LD50	>2,400 mg/kg (rat)	
Dermal	LD50	>10,000 mg/kg (rabbit)	
107-21-1	107-21-1 ethanediol		
Oral	LD50	7,712 mg/kg (rat)	
Dermal	LD50	>3,500 mg/kg (rabbit)	
		>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.

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

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- · 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	<i>'</i> :		
	94-36-0 dibenzoyl peroxide		
LC50 / 96h	0.0602 mg/l (fish - Oncorhynchus mykiss) (OECD TG 203)		
EC50 / 48h	0.11 mg/l (crustacea - Daphnia magna) (OECD TG 202)		
ErC50 / 72h	0.0711 mg/l (algae - Pseudokirchneriella subcapitata) (OECD TG 201)		
M Factor Acute	10		
NOEC / 96h	0.0316 mg/l (fish)		
EC10 / 21d	0.001 mg/l (crustacea - Daphnia magna) (OECD TG 211)		
NOEC / 72 h	0.02 mg/l (algae - Pseudokirchneriella subcapitata)		
M Factor Chronic	10		
131-11-3 dimethy	•		
LC50 / 96h	39 mg/l (fish)		
EC50 / 48h	52 mg/l (daphnia)		
ErC50 / 72h	259.76 mg/l (algae)		
107-21-1 ethaned			
LC50 / 96h	72,860 mg/l (fish)		
EC50 / 48h	>100 mg/l (crustacea - Daphnia magna)		
ErC50 / 96h	>100 mg/l (algae)		
	and degradability		
94-36-0 dibenzoy	·		
1 .	ability in water / 28d 71 % (OECD TG 301 D)		
131-11-3 dimethy	•		
Ready Biodegrada	ability in water / 28d >91 %		
· 12.3 Bioaccumul	·		
94-36-0 dibenzoy			
Log Kow 3.2 (OE	·		
131-11-3 dimethy	rl phthalate		
Log Kow 2.12			
BCF 57 (fish)			
· 12.4 Mobility in soil			
94-36-0 dibenzoy			
Log Koc 3.8 (OECD TG 121)			
131-11-3 dimethy	rl phthalate		
Log Koc 1.57			

# · 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





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- · Additional ecological information:
- · General notes:

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

# **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	1440.400
· ADR, IMDG, IATA	UN3108
· 14.2 UN proper shipping name	
· ADR	ORGANIC PEROXIDE TYPE E, SOLID, ENVIRONMENTALLY
· IMDG	HAZARDOUS ORGANIC PEROXIDE TYPE E, SOLID, MARINE POLLUTANT
· IATA	ORGANIC PEROXIDE TYPE E, SOLID
· 14.3 Transport hazard class(es)	
· ADR, IMDG	
<b>1 1 1 1 1 1 1 1 1 1</b>	
· Class	5.2 Organic peroxides.
· Label	5.2
· IATA	
52	
· Class	5.2 Organic peroxides.
· Label	5.2
· 14.4 Packing group	
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	Yes
Special marking (ADD):	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Organic peroxides.
· Hazard identification number (Kemler code): · EMS Number:	- F-J,S-R
· Stowage Category	r-J,S-K D
· Stowage Code	SW1 Protected from sources of heat.
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· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.	
14.7 Maritime transport in bulk accord	ing 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, ENVIRONMENTALLY HAZARDOUS	5.2

# **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  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. 878/2020 (amending Reg.EC n. 1907/2006, Annex II)
- · 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
- · National regulations:
  - · Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## **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

PROC7 Industrial spraying





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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 Tabletting, 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:

LD50: Lethal dose, 50 percent

LC50: Lethal Concentration, 50 percent

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

Kow: Octanol-Water partition coefficient BCF: BioConcentration Factor

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

IATA: International Air Transport Association WGK: Wassergefährdungsklasse - Water hazard class [Germany]

LC50: LC50: Lethal Concentration, 50 percent

EC50: Effective Concentration, 50 percent

ErC50: Effective Concentration, 50 percent, growth rate

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

CLP: Classification, Labelling and Packaging IMDG: International Maritime Code for Dangerous Goods REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists [USA]

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 (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 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