

Version: 7 (replaces version 6)

Revision: 16.02.2023

The Peroxide Company

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

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· 1.1 Product identifier
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**PEROXAN EPC-75** 

· Trade name:	PERUXAN EPU-/5			
1.2 Relevant identified uses of the substance or mixture and uses advised against				
	No further relevant information available.			
<ul> <li>Application of the substance /</li> </ul>				
the mixture	Reaction initiator			
	For industrial use			
1.3 Details of the supplier of the safety data sheet				
· Manufacturer/Supplier:	PERGAN GmbH			
	Hilfsstoffe für industrielle Prozesse			
	Schlavenhorst 71			
	D-46395 Bocholt			
	Tel: +49 2871 9902-0			
	Fax: +49 2871 9902-50			
· Further information obtainable				
from:	Environment protection / Security of labour			
	Qualified person: E-mail: msds@pergan.com			
• 1.4 Emergency telephone				
number:	- Tel: +49 2871 9902-0			
SECTION 2. Hazards identified	ration			

#### **SECTION 2: Hazards identification**

'	julation (EC) No 1 iquid and vapour. / cause a fire. irritation. ous eye damage.	stion.
• 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 • Hazard pictograms	The product is cla Constant of the product is cla CHS02 CHS05 C	assified and labelled according to the CLP regulation.
· Signal word	Danger	
<ul> <li>Hazard-determining components of labelling:</li> <li>Hazard statements</li> </ul>	Danger bis(2-ethylhexyl) peroxydicarbonate Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated H226 Flammable liquid and vapour. H242 Heating may cause a fire. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction.	
• Precautionary statements	P210 P220 P234 P243 P264 P280 P301+P310 P331 P303+P361+P35	<ul> <li>al if swallowed and enters airways.</li> <li>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).</li> <li>Keep only in original packaging.</li> <li>Take action to prevent static discharges.</li> <li>Wash thoroughly after handling.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> <li>Do NOT induce vomiting.</li> <li>3 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].</li> <li>8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>Store in a well-ventilated place. Keep cool.</li> <li>Store locked up.</li> <li>Protect from sunlight.</li> <li>Store at temperatures not exceeding -15°C.</li> </ul>
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disrupting properties	The product	does not contain substances with endocrine disrupting properties.
· vPvB: · Determination of endocrine-	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
· PBT:		ces in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
2.3 Other hazards Results of PBT and vPvB asse	ssment	
	P420 P501	Store separately. Dispose of contents/container in accordance with local/regional/national/international regulations.
	5.400	(Contd. of page 1

### **SECTION 3: Composition/information on ingredients**

#### · 3.2 Mixtures

<ul> <li>Dangerous components:</li> </ul>		
	bis(2-ethylhexyl) peroxydicarbonate	70-80%
EINECS: 240-282-4	Org. Perox. C, H242; Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317	
Reg-No.: 01-2119964452-35		
CAS: 93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	20-25%
EINECS: 297-629-8	Alternative CAS number: 13475-82-6	
Reg-No.: 01-2119490725-29	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	
<ul> <li>Additional information:</li> </ul>	For the wording of the listed hazard phrases refer to section 16.	

### **SECTION 4: First aid measures**

· 4.1 Description of first aid meas	ures
· General information:	Take care of personal protection for the first aider.
<ul> <li>After inhalation:</li> </ul>	Supply fresh air and to be sure call for a doctor.
	In case of unconsciousness place patient stably in side position for transportation.
	Take affected persons into fresh air and keep quiet.
<ul> <li>After skin contact:</li> </ul>	Immediately wash with water and soap and rinse thoroughly.
	Immediately remove contaminated clothing.
<ul> <li>After eye contact:</li> </ul>	Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
After swallowing:	If symptoms persist consult doctor.
<ul> <li>4.2 Most important symptoms and effects, both acute and</li> </ul>	
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.
• 5.2 Special hazards arising from	
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded.
	Hydrocarbons, carbondioxide and -monoxid.
<ul> <li>5.3 Advice for firefighters</li> </ul>	
<ul> <li>Protective equipment:</li> </ul>	Do not inhale explosion gases or combustion gases.
• Additional information	Cool endangered receptacles with water spray.
	Self-protection first!

#### **SECTION 6: Accidental release measures**

<ul> <li>6.1 Personal precautions, protective equipment and</li> </ul>		
emergency procedures	Keep away from ignition sources.	
• • •	In case of further temperature should be cooled with waterspray from a safe distance.	
	Wear breathing apparatus with filter A during decomposition of materials.	
	Wear protective equipment. Keep unprotected persons away.	
· 6.2 Environmental precautions:	Inform respective authorities in case of seepage into water course or sewage system.	
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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31 Version: 7 (replaces version 6)



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	Do not allow to enter sewers/ surface or ground water.
· 6.3 Methods and material for	
containment and cleaning up:	Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
· 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.
	In case of large spillage the environmental authority should be informed.

### **SECTION 7: Handling and storage**

OEOHON 7. Handling and St	
· 7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
-	Open and handle receptacle with care.
	Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	Do not refill residue into storage receptacles.
	Restrict the quantity stored at the work place.
	Before break and at the end of work hands should be thoroughly washed.
	Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-
	metal compounds and amines).
	While using do not eat, drink or smoke.
	Do not generate flames or sparks.
	Keep product and emptied container away from heat and sources of ignition.
	Avoid shock and friction.
	Take precautionary measures against static discharges.
	Do not amoleo
	Do not smoke.
· Information about fire - and	
explosion protection:	Protect from heat.
explosion protection.	Protect against electrostatic charges.
	Prevent impact and friction.
	Use explosion-proof apparatus / fittings and spark-proof tools.
	Fumes can combine with air to form an explosive mixture.
	Wear shoes with conductive soles.
	Formation of flammable or explosive gas/air-mixtures is possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Avoid open names, sparks, direct sumight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
· 7.2 Conditions for safe storage,	including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
Requirements to be met by	
storerooms and receptacles:	Store only in the original receptacle.
•	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
<ul> <li>Information about storage in</li> </ul>	
one common storage facility:	Do not store or park organic peroxide together with heavy metal compounds and amines.
-	Store away from foodstuffs, drinks and feeding stuffs.
• Further information about	
storage conditions:	Keep container tightly sealed.
	Protect from heat and direct sunlight.
	Protect from contamination.
	Storage in a collecting room is required.
Recommended storage	
temperature (To maintain	
quality):	-2515 °C
Control temperature:	-15 °C
<ul> <li>Emergency temperature:</li> </ul>	-5 °C
· Storage class:	5.2
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7.3 Specific end use(s)		No further relevant information available.	(Contd. of page
SECTION 8: Exposu	re contro	s/personal protection	
8.1 Control parameters Ingredients with limit that require monitorin workplace:	values	The product does not contain any relevant quantities of materials with critical values tha monitored at the workplace.	t have to be
·DNELs			
16111-62-9 bis(2-ethylh	nexyl) pero	xydicarbonate	
· ·		6,67 mg/kg bw/day (Worker)	
Inhalative DNEL Longte	rm System	11,75 mg/m3 (Worker)	
· PNECs			
16111-62-9 bis(2-ethylh	nexyl) pero	xydicarbonate	
PNEC Marinewater sed			
PNEC Freshwater	0,032 mg/	(AF 50)	
PNEC Freshwater sed	0,228 mg/	kg sed dw (-)	
PNEC Soil		/kg soil dw (-)	
PNEC STP	1,5 mg/l (A	F 10)	
PNEC Marinewater	0,0032 mg	/I (AF 500)	
· Additional informatio	n:	The lists valid during the making were used as basis.	
hygienic measures:		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. Store protective clothing separately. Avoid close or long term contact with the skin. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.	
· Respiratory protectio	n:	Be sure to clean skin thoroughly after work and before breaks. Not necessary if room is well-ventilated. Use suitable respiratory device when it exceed exposure limit and when insuffic Filter A2	iently ventilated.
· Hand protection		Only use chemical-protective gloves with CE-labelling of category III. Selection of the glove material on consideration of the penetration times, rates of degradation	of diffusion and th
• Material of gloves		Protective gloves The selection of the suitable gloves does not only depend on the material, but also on fu quality and varies from manufacturer to manufacturer. Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene	urther marks of
<ul> <li>Penetration time of g material</li> </ul>	glove	The exact break trough time has to be found out by the manufacturer of the protective g observed.	loves and has to
· Eye/face protection		Tightly sealed goggles	
· Body protection:		Protective work clothing	

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9.1 Information on basic physical and chemical properties         • General Information         • Odour:       Solvent-like         • Odour threshold:       Not determined.         • Mithing point or initial boiling point and boiling range       Not applicable.         • Boiling point or initial boiling point and boiling range       Not applicable.         • Lower and upper explosion limit       Not determined.         • Lower and upper explosion limit       Not determined.         • Lower and upper explosion limit       57 °C         • Decomposition temperature:       +5 °C (SADT)         pH       Not determined.         • Secontry:       Not determined.         • Secontry:       Undetermined.         • Partition coefficient n-octanol/water (log value)       Not determined.         • Appour pressure:       Not determined.         • Appour density       Not determined.         • Vapour density       Not determined.         • Appoarance:       Fluid         • Information on protection of health and environment, and on sately.       Fluid	SECTION 9: Physical and chemical properties	
General Information         Colouriess           Odour:         Solvent-like           Odour threshold:         Not determined,           Metting point/freezing point:         Not applicable.           Boiling point or initial boiling point and boiling range         Not applicable.           Flammability         Not applicable.           Lower and upper explosion limit         Not determined.           · Upper:         Not determined.           · Decomposition temperature:         -5 °C (SADT)           pH         Not determined.           · Viscosity:         Not determined.           · Viscosity:         Not determined.           · Viscosity:         Not determined.           · Viscosity:         Not determined.           · Vapuor pressure:         Not determined.           · Vapuor formation on protection of health and environmet, and on safety.         Not determined.           · Important information on protection of health and environmet, and on safety.         Product is not setfigniting.           · Preshy se properties:         Product is not		
Colour:       Colourless         Oddour threshold:       Not determined.         Meiting point/freezing point:       Not applicable.         Boiling point or initial boiling range       Not applicable.         Lower and upper explosion limit       Not determined.         'Upper:       Not determined.         'Upper:       Not determined.         'Upper:       Not determined.         'Phan boint:       S7 'C         'Decomposition temperature:       45 'C (SADT)         PH       Not determined.         'Viscosity:       Not determined.         'Viscosity:       Not determined.         'Solubility       -         'water:       Undetermined.         'Partition coefficient n-octanol/water (log value)       not determined.         'Ponsity at 20 'C:       0.921 g/cm <sup>2</sup> 'Ponsity at 20 'C:       0.921 g/cm <sup>2</sup> 'Appour density       Not determined.         'Information       No further relevant information available.         'Appearace:       -         'Form:       Flait         'Information on protection of health and environment, and on safety.         'Information rate       Void         'Information rate       Void         <		
Odour:       Solvent-like         Odour threshold:       Not applicable.         Meiting point/freesing point:       Not applicable.         Plammability       Not applicable.         * Lower:       Not delemined.         * Lower:       Not delemined.         * Upper       Not delemined.         * Upper       Not delemined.         * Upper       Not delemined.         * Flash point:       57 °C         Decomposition temperature:       57 °C         Viscosity:       Not delemined.         * Viscosity:       Not delemined.         * Upper       Not delemined.         * Solubility       Undetermined.         * Water:       Undetermined.         * Solubility       Undetermined.         * Opport relative density       Undetermined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Opport relative density       Undetermined.         * Opport relative density       Not determined.         * Appearance:       * Oppearance.         * Form:       Fluid         * Information on protection of health and environment, and on safety.       Not determined.         • Styposive properties:       Product is not selfgniting. </th <th></th> <th>Colourless</th>		Colourless
• Odour threshold:     Not determined.       • Meiting point freezing point:     Not applicable.       • Planmability     Not applicable.       • Lower:     Not determined.       • Upper:     Not determined.       • Viscosity:     Not determined.       • Viscosity:     Not determined.       • Viscosity:     Not determined.       • Viscosity:     Not determined.       • Variation coefficient n-octanol/water (log value)     not determined.       • Vapour pressure:     Not determined.       • Partition coefficient n-octanol/water (log value)     not determined.       • Vapour pressure:     Not determined.       • Vapour density     Not determined.       • Soubiling for relative density     Not determined.       • Informatin information on protection of health and environment, and on	· Odour:	
Billing point or initial bolling point and bolling range       Not applicable.         Flammability       Not applicable.         Lower:       Not determined.         'Lower:       Not determined.         'Upper:       Not determined.         'Presh point:       57 °C C         Decomposition temperature:       +5 °C (SADT)         PH       Not determined.         'Viscosity:       Vates:         'Not determined.       'Viscosity:         - Water:       Undetermined.         'Solubility       -         - Water:       Undetermined.         'Vapour pressure:       Not determined.         'Vapour pressure:       Not determined.         - Density and/or relative density       Not determined.         'Vapour density       Not determined.         'Solubic density       Not determined.         'Information on prote		
Boiling point or initial boiling point and boiling range       Not applicable.         Flammability       Not determined.         Lower and upper explosion limit       Not determined.         'Lower:       Not determined.         'Upper:       Not determined.         'Preship point:       57 °C C         Decomposition temperature:       +5 °C (SADT)         'PH       Not determined.         'Viscosity:       Vatesmined.         'Solubility       Undetermined.         'Solubility       Undetermined.         'Solubility       Undetermined.         'Solubility       Undetermined.         'Solubility       Not determined.         'Solubility       Not determined.         'Solubility       Not determined.         'Papor pressure:       Not determined.         'Papor pressure:       Not determined.         'Papor pressure:       Not determined.         'Papor properios:       Fluid         'Solubicy       Not determined.         'Solubicy       Not determined.         'Paporance:       Fluid         'Density and/or relative density       Not determined.         'Solubicy       Not determined.         'Ipperatinformation on prote	Melting point/freezing point:	
Flammability       Not applicable.         Lower and upper explosion limit       Not determined.         'Upper:       Not determined.         'Ishs point:       57 °C         Decomposition temperature:       +5 °C (GADT)         pH       Not determined.         'Viscosity:       Not determined.         'Solubility       Not determined.         'Partition coefficient n-octanol/water (log value)       not determined.         'Vapour grossure:       0.921 g/cm³         'Density at 20 °C:       0.521 g/cm³         'Relative density       Not determined.         'Japoar density       Not determined.         'S.2 Other information on protection of health and environment, and on safety.         'Ignition temperature: </th <th></th> <th>••</th>		••
<ul> <li>Lower and upper explosion limit</li> <li>Lower:</li> <li>Not determined.</li> <li>Upper:</li> <li>Not determined.</li> <li>Vipper:</li> <li>Flash point:</li> <li>57 °C</li> <li>Decomposition temperature:</li> <li>+5 °C (FADT)</li> <li>H</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Not determined.</li> <li>Viscosity:</li> <li>V</li></ul>		
<ul> <li>Lower: Not determined.</li> <li>Upper: Not determined.</li> <li>Flash point: 57 °C</li> <li>Decomposition temperature: 57 °C</li> <li>Viscosity: Not determined.</li> <li>Viscosity: Not determined.</li> <li>Viscosity: Not determined.</li> <li>Dynamic: Not determined.</li> <li>Solubility</li> <li>water: Undetermined.</li> <li>Partition coefficient n-octanol/water (log value) not determined.</li> <li>Ponsity and dor relative density</li> <li>Density and dor relative density</li> <li>Not determined.</li> <li>Yapour density Not determined.</li> <li>Yapour density</li> <li>Not determined.</li> <li>Yapour density</li> <li>Yapour density</li> <li>Not determined.</li> <li>Yapour density</li> <l< th=""><td></td><td></td></l<></ul>		
<ul> <li>Fish point:</li> <li>57 °C</li> <li>Decomposition temperature:</li> <li>45 °C (SADT)</li> <li>pH</li> <li>Not determined.</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Not determined.</li> <li>Solubility</li> <li>water:</li> <li>vater:</li> <li>Vate</li></ul>		Not determined.
• Decomposition temperature:       +5°C (SADT)         • PH       Not determined.         • Viscosity:       • Not determined.         • Visnomic:       Not determined.         • Dynamic:       Not determined.         • Wator:       Undetermined.         • Vapour pressure:       Not determined.         • Vapour pressure:       Not determined.         • Density and/or relative density       0.921 g/cm³         • Relative density       Not determined.         • Vapour density       Not determined.         • Vapour density       Not determined.         • Vapour density       Not further relevant information available.         • Paperance:       -         • Form:       Fluid         • Important information on protection of health and environment, and on safety.       -         • Ignition temperature:       Product is not setigniting.         • Ignition temperature:       Product is not setigniting.         • Explosive properties:       Not determined.         • Product is not setigniting.       -         • Ignition temperature:       Void         • Fammable gases       Void         • Information with regard to physical hazard classes       Void         • Flammable gases       Void	· Upper:	Not determined.
PH       Not determined.         Viscosity:       Not determined.         Solubility       Not determined.         * water:       Undetermined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Density and/or relative density       Not determined.         • Density at 20 °C:       0.921 g/grm³         • Relative density       Not determined.         • Vapour density       Not further relevant information available.         • Appearance:       Fluid         • Form:       Fluid         • Important information on protection of health and environment, and on safety.       Induct is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Explosive properties:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Change in condition       •         • Explosives       Void         • Flammable gases       Void         • Aerosols		57 °C
PH       Not determined.         Viscosity:       Not determined.         Solubility       Not determined.         * water:       Undetermined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Partition coefficient n-octanol/water (log value)       not determined.         * Density and/or relative density       Not determined.         • Density at 20 °C:       0.921 g/grm³         • Relative density       Not determined.         • Vapour density       Not further relevant information available.         • Appearance:       Fluid         • Form:       Fluid         • Important information on protection of health and environment, and on safety.       Induct is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Explosive properties:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Change in condition       •         • Explosives       Void         • Flammable gases       Void         • Aerosols	Decomposition temperature:	+5 °C (SADT)
· Kinematic viscosity       Not determined.         · Dynamic:       Not determined.         · Solubility       Undetermined.         · wator:       Undetermined.         · Partition coefficient n-octanol/water (log value)       not determined.         · Density and/or relative density       Not determined.         · Density and/or relative density       0.921 g/cm³         · Density and/or relative density       Not determined.         · Vapour density       Not determined.         · Information on protection of health and environment, and on safety.       Ignition temperature:         · Ignition temperature:       Product is not selfigniting.         · Exaporation rate       Not determined.         · Information with regard to physical hazard classes       Void         · Kaposols       Void		
• Dynamic:       Not determined.         • Solubility       • Undetermined.         • water:       Undetermined.         • Partition coefficient n-octanol/water (log value)       not determined.         • Pansity and/or relative density       Not determined.         • Density and/or relative density       0.921 g/cm <sup>3</sup> • Density at 20 °C:       0.921 g/cm <sup>3</sup> • Relative density       Not determined.         • Vapour density       Not determined.         • Vapour density       Not determined.         • Subperance:       Form:         • Form:       Fluid         Important information on protection of health and environment, and on safety.       Product is not selfigniting.         • Explosive properties:       Product is not selfigniting.         • Explosive properties:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Information with regard to physical hazard classes       Void         • Information with regard to physical hazard classes       Void         • Aerosols       Void         • Cases under pressure       Void         • Flammable liquids       Flammable liquid and vapour.         • Flammable losolids       Void         • Self-reactive substances and mixtures       Void </th <td></td> <td></td>		
Solubility       Undetermined.         • water:       Undetermined.         • Partition coefficient n-octanol/water (log value)       not determined.         • Density and/or relative density       0.921 g/cm³         • Density at 20 °C:       0.921 g/cm³         • Relative density       Not determined.         • Vapour density       Product is not setigniting.         • Form:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Explosive properties:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Information with regard to physical hazard classes       Void         • Flammable gases       Void         • Aerosols       Void         • Aerosols       Void         • Gases under pressure <td< th=""><td>· Kinematic viscosity</td><td>Not determined.</td></td<>	· Kinematic viscosity	Not determined.
Solubility       Undetermined.         • water:       Undetermined.         • Partition coefficient n-octanol/water (log value)       not determined.         • Density and/or relative density       0.921 g/cm³         • Density at 20 °C:       0.921 g/cm³         • Relative density       Not determined.         • Vapour density       Product is not setigniting.         • Form:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Explosive properties:       Product is not explosive. However, formation of explosive air/vapour mixtures are possible.         • Information with regard to physical hazard classes       Void         • Flammable gases       Void         • Aerosols       Void         • Aerosols       Void         • Gases under pressure <td< th=""><td></td><td></td></td<>		
water:         Undetermined.           Partition coefficient n-octanol/water (log value)         not determined.           Vapour pressure:         Not determined.           Density and/or relative density         Not determined.           Density at 20 °C:         0.921 g/cm³           Relative density         Not determined.           ' Vapour density         Not determined.           ' Vapour density         Not further relevant information available.           ' Appearance:         Form:           - Form:         Fluid           Important information on protection of health and environment, and on safety.         Product is not selfigniting.           ' Explosive properties:         Product is not selfigniting.           ' Explosive properties:         Product is not selfigniting.           ' Explosive properties:         Product is not explosive. However, formation of explosive air/vapour mixtures are possible.           ' Change in condition         *           ' Explosives         Void           ' Flammable gases         Void           ' Rammable gases         Void           ' Flammable gases         Void           ' Flammable liquids         Flammable liquid and vapour.           ' Flammable solids         Void           ' Pyrophoric liquids         V		
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<ul> <li>Density at 20 °C:</li> <li>0.921 g/cm<sup>3</sup></li> <li>Relative density</li> <li>Not determined.</li> <li>Vapour density</li> <li>Not determined.</li> <li>9.2 Other information</li> <li>Appearance:</li> <li>Form:</li> <li>Fluid</li> <li>Important information on protection of health and environment, and on safety.</li> <li>Ignition temperature:</li> <li>Product is not selfigniting.</li> <li>Explosive properties:</li> <li>Product is not selfigniting.</li> <li>Explosive properties:</li> <li>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</li> <li>Change in condition</li> <li>Explosives</li> <li>Void</li> <li>Flammable gases</li> <li>Void</li> <li>Aerosols</li> <li>Oxidising gases</li> <li>Void</li> <li>Flammable liquids</li> <li>Flammable liquids</li> <li>Flammable liquids</li> <li>Void</li> <li>Self-reactive substances and mixtures</li> <li>Void</li> <li>Self-reacting substances and mixtures</li> <li>Void</li> <li>Self-reacting substances and mixtures</li> <li>Void</li> <li>Self-reacting substances and mixtures</li> <li>Void</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Void</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Void</li> <li>Oxidising solids</li> <li>Void</li> </ul>	Density and/or relative density	
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Organic peroxides     Heating may cause a fire.       Corrosive to metals     Void		
Corrosive to metals Void		
	Corrective to metale	<b>o</b> ,
		volu
• Other safety characteristics		34 36%
- Active oxygen 3,4 - 3,6 %	Active Oxygen	J,4 - J,U 70

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity · 10.2 Chemical stability

 Thermal decomposition / conditions to be avoided: No further relevant information available.

SADT (Self Accelerating Decomposition Temperature) is the lowest temperature at which self accelerating decomposition may occur with substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be cause decomposition at and above the temperature. Contact with incompatible substances can cause

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mposition at or below the SADT.
ecomposition if used and stored according to specifications.
void thermal decomposition do not overheat.
accelerating decomposition at SADT.
Irther relevant information available.
d decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.
y-metal compounds and amines).
ocarbons, carbondioxide and -monoxid.
azardous decomposition products if used and stored according to specifications.
rgency procedures will vary depending on conditions. The customer should have an emergency onse plane in place.

### **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:			
16111-62-9 bis(2-ethylhexyl) peroxydicarbonate			
Oral LD50 >2.000 mg/kg (ratt	us)		
Dermal LD50 >2.000 mg/kg (rattus)			
93685-81-5 Hydrocarbons, C4, 1	93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Oral LD50 >5.000 mg/kg (ratt	us)		
Skin corrosion/irritation	Causes skin irritation.		
· Serious eye damage/irritation	Causes serious eye damage.		
Respiratory or skin			
sensitisation	May cause an allergic skin reaction.		
<ul> <li>Germ cell mutagenicity</li> </ul>	Based on available data, the classification criteria are not met.		
<ul> <li>Carcinogenicity</li> </ul>	Based on available data, the classification criteria are not met.		
<ul> <li>Reproductive toxicity</li> </ul>	Based on available data, the classification criteria are not met.		
<ul> <li>STOT-single exposure</li> </ul>	Based on available data, the classification criteria are not met.		
<ul> <li>STOT-repeated exposure</li> </ul>	Based on available data, the classification criteria are not met.		
<ul> <li>Aspiration hazard</li> </ul>	May be fatal if swallowed and enters airways.		
11.2 Information on other hazards			
· Endocrine disrupting properties			
None of the ingredients is listed.			

### **SECTION 12: Ecological information**

· 12.1 Toxicity		
<ul> <li>Aquatic toxicity:</li> </ul>		
93685-81-5 Hydrocarbons, C4	, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	
EC50 / 48h >0,04 mg/l (daphnia	a)	
IC50 / 72h >0,04 mg/l (algae)		
12.2 Persistence and degradability		
· Degree of elimination:	•	
· Classification:		
16111-62-9 bis(2-ethylhexyl) peroxydicarbonate		
Degradation (Readily biodegra	Degradation (Readily biodegradable) (OECD 301 B)	
93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated		
Degradation (Not readily biodegradable)		
12.3 Bioaccumulative potentia	al	
Partition coefficient: nOctanol/water: [Log Kow]		
16111-62-9 bis(2-ethylhexyl) pe	eroxydicarbonate	2,73
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB assessment		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.	
<ul> <li>12.6 Endocrine disrupting</li> </ul>		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	No further relevant information available.	
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· Remark:	Toxic for fish (Contd. of page 6	
· Additional ecological information	on:	
· General notes:	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 consi	iderations	
13.1 Waste treatment methods • Recommendation	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.	
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.	
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	This material and its container must be disposed of as hazardous waste.	

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG	UN3115
· 14.2 UN proper shipping name · ADR · IMDG	UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE) ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (DI-(2-ETHYLHEXYL)-PEROXYDICARBONATE)
• 14.3 Transport hazard class(es) • ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
· IMDG	
· Class · Label	5.2 Organic peroxides. 5.2
· IATA · Class · Label	X X
· 14.4 Packing group · ADR, IMDG	Void
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>Segregation Code</li> </ul>	Warning: Organic peroxides. - D SW1 Protected from sources of heat. SW3 Shall be transported under temperature control. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· 14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.
	(Contd. on page

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	(Contd. of page
Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
<ul> <li>Tunnel restriction code</li> </ul>	D
· RID / GGVSEB:	no admission
·IMDG	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
ΙΑΤΑ	
· Remarks:	no admission
Control temperature:	-15 °C
Emergency temperature:	-5 °C

### **SECTION 15: Regulatory information**

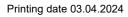
· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

forr earery, nearth and enrice	
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances</li> </ul>	
- ANNEX I	, None of the ingredients is listed.
<ul> <li>Seveso category</li> </ul>	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
<ul> <li>Qualifying quantity (tonnes) fo</li> </ul>	r
the application of lower-tier	
requirements	50 t
• Qualifying quantity (tonnes) fo	r
the application of upper-tier requirements	200 t
· REGULATION (EC) No	2001
1907/2006 ANNEX XVII	Conditions of restriction: 3
DIRECTIVE 2011/65/ELL on the r	restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex
	estitution of the use of certain hazardous substances in electrical and electronic equipment – Annex
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
. ,	SIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPL	OSIVES PRECURSORS
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 o	n drug precursors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 la precursors</li> </ul>	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	

### **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	H226 Flammable liquid and vapour. H242 Heating may cause a fire. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H413 May cause long lasting harmful effects to aquatic life.
<ul> <li>Department issuing SDS:</li> <li>Contact:</li> </ul>	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com



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# Trade name: PEROXAN EPC-75

	(Contd. of page 8)
<ul> <li>Version number of previous</li> </ul>	
version:	6
	<ul> <li>RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</li> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDG: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELNCCS: European Inventory of Existing Commercial Chemical Substances</li> <li>CAS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Concentration (REACH)</li> <li>PNEC: Predicted No-Effect Concentration (REACH)</li> <li>DSD: Lethal concentration, 50 percent</li> <li>DSD: Lethal dose, 50 percent</li> <li>PST: Persistent, Bioaccumulative and Toxic</li> <li>vPvB: very Persistent and very Bioaccumulative</li> <li>Flam. Liq. 3: Flammable liquids - Category 3</li> <li>Org. Perox. C: Organic peroxides - Type C/D</li> <li>Org. Perox. D: Organic peroxides - Type C/D</li> <li>Org. Perox. D: Organic peroxides - Type C/D</li> <li>Skin Sens. 1: Skin sensitisation - Category 1</li> <li>Akin Sens. 1: Skin sensitisation - Category 1</li> <li>Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4</li> </ul>
* Data compared to the	
previous version altered.	