

Version: 7 (replaces version 6)

Revision: 15.02.2023

The Peroxide Company

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

· 1.1 Product identifier

DEDOVAN DCC 75

· Trade name:	PEROXAN BCC-/5
· 1.2 Relevant identified uses of the	ne substance or mixture and uses advised against No further relevant information available.
 Application of the substance / the mixture 	Reaction initiator For industrial use
• 1.3 Details of the supplier of the • Manufacturer/Supplier:	safety data sheet 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	cation

• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008		
Org. Perox. C	H242 Heating may cause a fire.	
Skin Sens. 1	H317 May cause an allergic skin reaction.	

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements
 Labelling according to
Regulation (EC) No 1272/2008
Hazard pictograms

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

	$\langle \mathbf{i} \rangle$
GHS02	GHS07

· Signal word	Danger
 Hazard-determining components of labelling: Hazard statements 	di-(4-tertbutylcyclohexyl)-peroxydicarbonate H242 Heating may cause a fire. H317 May cause an allergic skin reaction.
· Precautionary statements	 H412 Harmful to aquatic life with long lasting effects. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines). P234 Keep only in original packaging. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.
· 2.3 Other hazards	 P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding +30°C. Keep cool. P420 Store separately. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
• Results of PBT and vPvB ass	essment

· PBT: · vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

 Dangerous components 	S:	
CAS: 15520-11-3	di-(4-tertbutylcyclohexyl)-peroxydicarbonate	70-80%
EINECS: 239-557-1	Org. Perox. C, H242; Skin Sens. 1, H317; Aquatic Chronic 3, H412	
Reg-No.: 01-2119966122-		
CAS: 98-52-2	4-tert-butylcyclohexanol	2.5-5%
EINECS: 202-676-4	Eye Irrit. 2, H319	
	(Cc	ontd. on page 2
		GB

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Additional information:	For the wording of the listed hazard phrases refer to section 16. (Contd. of page
SECTION 4: First aid measur	es
4.1 Description of first aid meas	ures
General information:	Take care of personal protection for the first aider.
After inhalation:	Take affected persons into fresh air and keep quiet.
After skin contact:	Immediately remove contaminated clothing.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing:	If symptoms persist consult doctor.
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.
the substance or mixture 5.3 Advice for firefighters Protective equipment: Additional information	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid. Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!
SECTION 6: Accidental relea	se measures
6.1 Personal precautions,	
protective equipment and	
emergency procedures	Keep away from ignition sources.
	After exceeding the emergency temperature must be diluted with a suitable desentisation agent to < 10 °
	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:	
0.2 Environmental precautions.	Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for	
containment and cleaning up:	Ensure adequate ventilation.
0.1	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before
	disposal.
	Pick up mechanically, collect in a suitable recentacle and dispose in accordance with government

Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations.

 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.
in case of large spinage the environmental autionty should be informed.

SECTION 7: Handling and storage • 7.1 Precautions for safe handling Keep receptacles tightly sealed. Keep away from heat and direct sunlight. Open and handle receptacle with care. Prevent formation of dust. 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).

GB —

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	(Contd. of pag The product must be preserved, stored and transported continously cool.
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heav 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.
	Take precadionary measures against static discharges.
	bo not smoke.
Information about fire	a - and
explosion protection:	
	Protect against electrostatic charges.
	Prevent impact and friction. Use explosion-proof apparatus / fittings and spark-proof tools.
	Dust can combine with air to form an explosive mixture.
	Substance/product is oxidising when dry.
	Product is not explosive. However, formation of explosive air/dust mixtures are possible.
	Avoid open flames, sparks, direct sunlight and other sources of ignition.
	Keep ignition sources away - Do not smoke.
7.2 Conditions for safe	e storage, including any incompatibilities
Storage:	Pay attention to the special requirements of your local autorithies for storing dangerous goods.
 Requirements to be n storerooms and recent 	
	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
Information about sto	-
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 a	
storage conditions:	Keep container tightly sealed.
	Protect from heat and direct sunlight. Protect from contamination.
· Recommended stora	
temperature (To mai	
quality): 7.3 Specific end use(s)	+5 +15 °C No further relevant information available.
SECTION 8: Exposu	re controls/personal protection
3.1 Control parameters	
Ingredients with limit	
workplace:	The product does not contain any relevant quantities of materials with critical values that have to be
•	monitored at the workplace.
DNELs	
	utylcyclohexyl)-peroxydicarbonate
•	rm Sustan 16.67 malka bulday (Markar)
Dermal DNEL Longte	erm System 16.67 mg/kg bw/day (Worker)
Dermal DNEL Longte nhalative DNEL Longte	5.87 mg/m3 (Worker)
Dermal DNEL Longte nhalative DNEL Longte PNECs	erm System 5.87 mg/m3 (Worker)
Dermal DNEL Longte nhalative DNEL Longte PNECs 15520-11-3 di-(4-tertb	erm System 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate
Dermal DNEL Longte nhalative DNEL Longte PNECs 15520-11-3 di-(4-tertb PNEC Marinewater sed	erm System 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-)
Dermal DNEL Longte nhalative DNEL Longte PNECs 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater	with system 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100)
Dermal DNEL Longte nhalative DNEL Longte DNECs 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater PNEC Freshwater sed	with system 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg sed dw (-)
Dermal DNEL Longte nhalative DNEL Longte DNECS 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater PNEC Freshwater sed PNEC Soil	system 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg sed dw (-) 936.8 mg/kg soil dw (-)
Dermal DNEL Longte nhalative DNEL Longte DNECs 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater PNEC Freshwater sed PNEC Soil PNEC STP	system 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg sed dw (-) 936.8 mg/kg soil dw (-) 2 mg/l (AF 10)
Dermal DNEL Longte nhalative DNEL Longte DNECs 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater PNEC Freshwater sed PNEC Soil PNEC STP PNEC Marinewater	system 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg sed dw (-) 936.8 mg/kg soil dw (-) 2 mg/l (AF 10) 0.039 mg/l (AF 100)
Dermal DNEL Longte Inhalative DNEL Longte DNEC S 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater PNEC Freshwater sed PNEC Soil PNEC STP PNEC Marinewater Additional informatio	system 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg sed dw (-) 936.8 mg/kg soil dw (-) 2 mg/l (AF 10) 0.039 mg/l (AF 10) 0.039 mg/l (AF 1.000) m: The lists valid during the making were used as basis.
Dermal DNEL Longte Inhalative DNEL Longte DNECS 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater PNEC Soil PNEC STP PNEC Marinewater Additional informatio 8.2 Exposure controls	arm System 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg soil dw (-) 936.8 mg/kg soil dw (-) 2 mg/l (AF 10) 0.039 mg/l (AF 100) m: The lists valid during the making were used as basis.
Dermal DNEL Longte Inhalative DNEL Longte PNECs 15520-11-3 di-(4-tertb PNEC Marinewater sed PNEC Freshwater	arm System 5.87 mg/m3 (Worker) utylcyclohexyl)-peroxydicarbonate 468.5 mg/kg sed dw (-) 0.39 mg/l (AF 100) 4,685 mg/kg soil dw (-) 936.8 mg/kg soil dw (-) 2 mg/l (AF 10) 0.039 mg/l (AF 100) m: The lists valid during the making were used as basis.



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Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

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ndividual protection measur General protective and	es, such as personal protective equipment
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.
	Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.
	Be sure to clean skin thoroughly after work and before breaks.
Respiratory protection:	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.
	Filter P2
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 diffusion and the degradation
	Protective gloves
Material of gloves	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. Butyl rubber, BR
	Fluorocarbon rubber (Viton) Nitrile rubber, NBR Neoprene
Penetration time of glove	Nopione
material	The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Eye/face protection	Tightly sealed goggles
Body protection:	Protective work clothing

SECTION 9: Physical and chemical properties

General InformationColour:white - yellowishOdour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Not applicable.Boiling point or initial boiling point and boiling rangeNot applicable.FlammabilityMay cause fire.Lower and upper explosion limitItermined.' Lower:Not determined.Upper:Not determined.' Upper:Not determined.' Lower:Not determined.' Upper:Not applicable.' Beoimposition temperature:+40 °C (SADT)pHNot applicable.' Viscosity:Viscosity.' Viscosity:Visto applicable.' SolubilityUndetermined.' water:Undetermined.' Vayamic:Not applicable.' Partition coefficient n-octanol/water (log value)not determined.' Vapour pressure:Not applicable.' Density:Not determined.' Bulk density at 10 °C:540 kg/m³' Vapour densityNot applicable.' Vapour densityNot applicable.		
Colour:white - yellowishOdour:CharacteristicOdour threshold:Not determined.Melting pointfreezing point:Not applicable.Boiling point or initial boiling point and boiling rangeNot applicable.FlammabilityMay cause fire.Lower and upper explosion limitItermined.'Lower:Not determined.'Upper:Not determined.'Upper:Not determined.'Decomposition temperature:+40 °C (SADT)'pHNot applicable.'Viscosity:Not applicable.'Viscosity:Not applicable.'SolubilityUndetermined.'Partition coefficient n-octanol/water (log value)not determined.'Vapour pressure:Not determined.'Density:Not determined.'Partition coefficient n-octanol/water (log value)not determined.'Pansity:Not determined.'Pansit	9.1 Information on basic physical and chemical properties	
Odour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Not applicable.Boiling point or initial boiling point and boiling rangeNot applicable.FlammabilityMay cause fire.Lower and upper explosion limitMay cause fire.Lower:Not determined.'Upper:Not determined.'East point:Not applicable.'Decomposition temperature:+40 °C (SADT)'pHNot applicable.'Viscosity:Viscosity.'water:Undetermined.'SolubilityNot applicable.'water:Undetermined.'Partition coefficient n-octanol/water (log value)not determined.'Vapour pressure:Not determined.'Density:Not determined.		
Odour threshold:Not applicable.• Melting point/freezing point:Not applicable.• Boiling point or initial boiling point and boiling rangeNot applicable.• Boiling point or initial boiling point and boiling rangeNot applicable.• Lower and upper explosion limitMay cause fire.• Lower:Not determined.• Upper:Not determined.• Flash point:Not applicable.• Decomposition temperature:+40 °C (SADT)• PHNot applicable.• Viscosity:Not applicable.• Viscosity:Not applicable.• Vapur pressure:Undetermined.• Partition coefficient n-octanol/water (log value)not determined.• Vapour pressure:Not applicable.• Density and/or relative densityNot determined.• Density at 10 °C:540 kg/m³• Vapour densityNot applicable.• Vapour densityNot determined.	· Colour:	white - yellowish
Melting point/freezing point:Not applicable.Boiling point or initial boiling point and boiling rangeNot applicable.FlammabilityMay cause fire.Lower and upper explosion limitMay cause fire.Lower:Not determined.Upper:Not determined.'Upper:Not applicable.'Elash point:Not applicable.'Decomposition temperature:+40 °C (SADT)'pHNot applicable.'Viscosity:Not applicable.'Viscosity:Visto applicable.'SolubilityNot applicable.'water:Undetermined.'Partition coefficient n-octanol/water (log value)not determined.'Vapour pressure:Not applicable.'Density:Not applicable.'Density:Not determined.'Beltive densityNot determined.'Density:Not determined.'Density:Not determined.'Density:Not determined.'Density:Not determined.'Density:Not determined.'Stative densityNot determined.'Bulk density at 10 °C:540 kg/m³'Vapour densityNot applicable.	· Odour:	Characteristic
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Lower and upper explosion limit	Boiling point or initial boiling point and boiling range	Not applicable.
Lower: Not determined. 'Upper: Not determined. 'Flash point: Not applicable. Decomposition temperature: +40 °C (SADT) 'pH Not applicable. 'Viscosity: Viscosity. 'Kinematic viscosity Not applicable. 'Dynamic: Not applicable. 'Solubility Viscosity. 'water: Undetermined. 'Partition coefficient n-octanol/water (log value) not determined. 'Vapour pressure: Not applicable. 'Density: Not determined. 'Belative density Not determined. 'Bulk density at 10 °C: 540 kg/m³ 'Vapour density Not applicable.	Flammability	May cause fire.
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pHNot applicable.Viscosity:Vot applicable.Kinematic viscosityNot applicable.Dynamic:Not applicable.SolubilityVot applicable.water:Undetermined.Partition coefficient n-octanol/water (log value)not determinedVapour pressure:Not applicable.Density and/or relative densityNot determined.Relative densityNot determined.Relative density at 10 °C:540 kg/m³Vapour densityNot applicable.	Flash point:	Not applicable.
Viscosity: Not applicable. · Kinematic viscosity Not applicable. · Dynamic: Not applicable. · Solubility Undetermined. · water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not applicable. · Density and/or relative density Not determined. · Relative density Not determined. · Bulk density at 10 °C: 540 kg/m³ · Vapour density Not applicable.	Decomposition temperature:	+40 °C (SADT)
Kinematic viscosityNot applicable.Dynamic:Not applicable.SolubilityVapplicable.water:Undetermined.Partition coefficient n-octanol/water (log value)not determinedVapour pressure:Not applicable.Density and/or relative densityNot determined.Relative densityNot determined.Relative density at 10 °C:540 kg/m³Vapour densityNot applicable.	· pH	Not applicable.
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Vapour pressure: Not applicable. Density and/or relative density Not determined. Density: Not determined. Relative density Not determined. Bulk density at 10 °C: 540 kg/m³ Vapour density Not applicable.	· water:	Undetermined.
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· Density: Not determined. · Relative density Not determined. · Bulk density at 10 °C: 540 kg/m³ · Vapour density Not applicable.	· Vapour pressure:	Not applicable.
• Relative density Not determined. • Bulk density at 10 °C: 540 kg/m³ • Vapour density Not applicable.	Density and/or relative density	
• Bulk density at 10 °C: 540 kg/m³ • Vapour density Not applicable.	[.] Density:	Not determined.
Vapour density Not applicable.	· Relative density	Not determined.
	 Bulk density at 10 °C: 	540 kg/m³
9.2 Other information No further relevant information available.	· Vapour density	Not applicable.
	· 9.2 Other information	No further relevant information available.

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· Appearance:	
· Form:	Like powder
 Important information on protection of health and environment, and on safety. 	
· Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/dust
	mixtures are possible.
· Change in condition	
· Evaporation rate	Not applicable.
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
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
Other safety characteristics	
· Active oxygen	2.9 - 3.1 %

SECTION 10: Stability and reactivity

-	
· 10.1 Reactivity · 10.2 Chemical stability · Thermal decomposition /	No further relevant information available.
conditions to be avoided:	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 decomposition at or below the SADT. No decomposition if used and stored according to specifications. To avoid thermal decomposition do not overheat.
· 10.3 Possibility of hazardous	
reactions	Self-accelerating decomposition at SADT.
 10.4 Conditions to avoid 	No further relevant information available.
· 10.5 Incompatible materials:	Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
· 10.6 Hazardous decomposition	
products:	Hydrocarbons, carbondioxide and -monoxid. No hazardous decomposition products if used and stored according to specifications.
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

SECTION 11: Toxicological information

 11.1 Information on hazard Acute toxicity 	classes as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant f	,	
15520-11-3 di-(4-tertbutylc	yclohexyl)-peroxydicarbonate	
Oral LD50 >5,000 mg/kg (ra	attus)	
98-52-2 4-tert-butylcyclohex	kanol	
Oral LD50 4,200 mg/kg (rat	tus)	
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
 Serious eye damage/irritat 	ion Low irritant effect	
		(Contd. on nade 6)

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		(Contd. of page 5)
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.	
 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 haz 	ards	
· Endocrine disrupting proper	ties	
None of the ingredients is listed		
SECTION 12: Ecological in	Iformation	
· 12.1 Toxicity		
Aquatic toxicity:		

LC50 / 96h 704 mg/l (oncorhyn	chus mykiss)	
12.2 Persistence and degrada		
· Degree of elimination:	Sinty	
· Classification:		
15520-11-3 di-(4-tertbutylcyc	lohexyl)-peroxydicarbonate	
Degradation (Not readily biode		
98-52-2 4-tert-butylcyclohexar		
Degradation (Readily biodegra	dable)	
12.3 Bioaccumulative potentia	al	
Partition coefficient: nOctan	ol/water: [Log Kow]	
15520-11-3 di-(4-tertbutylcycl	ohexyl)-peroxydicarbonate	8,34
98-52-2 4-tert-butylcyclohex	kanol	3,23 (20°0
Bioconcentration factor (BCF	F)	
15520-11-3 di-(4-tertbutylcyc	lohexyl)-peroxydicarbonate	
BCF 2,926		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvB		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria according to	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to	UK REACH, annex XIII.
12.6 Endocrine disrupting	The needed does not contain a destance with a destance discussion with a second destance of the	
properties	The product does not contain substances with endocrine disrupting properties. No further relevant information available	
12.7 Other adverse effects		
Additional ecological information		c ,
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardo	
	Do not allow undiluted product or large quantities of it to reach ground water, w	ater course or sewage
	system.	

SECTION 13: Disposal cons	iderations
 13.1 Waste treatment methods Recommendation 	After diluting with a suitable inert solid material to 10 %, the product 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.
 Uncleaned packaging: Recommendation: 	This material and its container must be disposed of as hazardous waste.
	GB

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SECTION 14: Transport information	
14.1 UN number or ID number · ADR, IMDG	UN3114
14.2 UN proper shipping name ADR	UN3114 ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLED (DI-(4-tertBUTYLCYCLOHEXYL)- PEROXYDICARBONATE) ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLE
	(DI-(4-tertBUTYLCYCLOHEXYL)-PEROXYDICARBONATE)
14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
IMDG	
Class	5.2 Organic peroxides.
· Label	5.2
· IATA · Class	X
·Label	X
14.4 Packing group · ADR, IMDG	Void
14.5 Environmental hazards: • Marine pollutant:	Νο
14.6 Special precautions for user	Warning: Organic peroxides.
 Hazard identification number (Kemler code): Stowage Category 	- D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	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 instru	uments Not applicable.
Transport/Additional information:	
· ADR	
Limited quantities (LQ)	0
· Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity
· Transport category	1
· Tunnel restriction code	D
· RID / GGVSEB:	no admission
· IMDG	<u>^</u>
 Limited quantities (LQ) Excepted quantities (EQ) 	0 Code: E0
בהנסףופע קעמונוונים (בע)	Not permitted as Excepted Quantity
· IATA	
Remarks:	no admission
· Control temperature:	+30 °C
Emergency temperature:	+35 °C



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The Peroxide Company

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· Regulated explosives precursors	
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precursors	
None of the ingredients is listed.	
· Reportable poisons	
None of the ingredients is listed.	
 Directive 2012/18/EU Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t 	
 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equi II 	pment – Annex
None of the ingredients is listed.	
Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3	5))
None of the ingredients is listed.	
Annex II - REPORTABLE EXPLOSIVES PRECURSORS	
None of the ingredients is listed.	
· Regulation (EC) No 273/2004 on drug precursors	
None of the ingredients is listed.	
Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countri precursors	ies in drug
None of the ingredients is listed.	

Other regulations, limitations and prohibitive regulations · Please note: Take care of the respective local regulations.

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.

5)	
· Relevant phrases	H242 Heating may cause a fire. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
 Department issuing SDS: Contact: 	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
• Abbreviations and acronyms:	RID: Réglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDC: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINCS: 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) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Org. Perox. C: Organic peroxides – Type C/D Eyrint 2: Servious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
 * Data compared to the previous version altered. 	