

Revision: 15.02.2023

(Contd. on page 2) IE -

Page 1/8			PERGAN
	accord	Safety data sheet ing to Regulation (EC) No 1907/2006, Article 3	The Peroxide Company
Printing date 03.04.2024	000010	Version: 11 (replaces version 10)	Revision: 15.02.202
SECTION 1: Identification of	the substan	ce/mixture and of the company/undertak	kina
· 1.1 Product identifier			
· Trade name:	PERO	XAN BCC	
CAS Number:	15520-11-3		
• EC number:	239-557-1	00.40	
 Registration number: 1.2 Relevant identified uses of t 	01-21199661 he substance	or mixture and uses advised against	
		levant information available.	
 Application of the substance / the mixture 	Reaction initi	ator	
	For industrial		
• 1.3 Details of the supplier of the	e safety data s	heet	
· Manufacturer/Supplier:	PERGAN Gn		
	Schlavenhors	r industrielle Prozesse st 71	
	D-46395 Boo		
	Tel: +49 287 Fax: +49 287		
· Further information obtainable			
from:	Environment	protection / Security of labour	
• 1.4 Emergency telephone	Qualified per	son: E-mail: msds@pergan.com	
number:	- Tel: +49 28	71 9902-0	
SECTION 2: Hazards identifi	ication		
 2.1 Classification of the substar Classification according to Reg 			
	may cause a f		
Skin Sens. 1 H317 May cau	use an allergic	skin reaction.	
Aquatic Chronic 3 H412 Harmful	l to aquatic life	with long lasting effects.	
2.2 Label elements			
 Labelling according to Regulation (EC) No 1272/2008 	The substan	ce is classified and labelled according to the CLP	Pregulation
· Hazard pictograms		0	
	GHS02 GHS	07	
· Signal word	Danger		
· Hazard-determining			
components of labelling:		ylcyclohexyl)-peroxydicarbonate	
· Hazard statements		g may cause a fire. ause an allergic skin reaction.	
	H412 Harmfu	I to aquatic life with long lasting effects.	
 Precautionary statements 		Keep away from heat, hot surfaces, sparks, open	i flames and other ignition sources. No
	P220 I	smoking. Keep away from dirt, rust, chemicals in particular	[•] concentrated acids, alkalis and accelerators
		(e. g. heavy metal compounds and amines).	
		Keep only in original packaging. Wash thoroughly after handling.	
	P280	Near protective gloves/protective clothing/eye pr	otection/face protection/hearing protection.
		Protect from sunlight. Store at temperatures not exceeding +30°C. Kee	p cool.
			•

P420

P501

SECTION 3: Composition/information on ingredients

· 2.3 Other hazards

· 3.1 Substances · CAS No. Description

· PBT:

· vPvB:

· Results of PBT and vPvB assessment

· Determination of endocrinedisrupting properties

Store separately.

regulations.

Dispose of contents/container in accordance with local/regional/national/international

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

The product does not contain substances with endocrine disrupting properties.

15520-11-3 di-(4-tert.-butylcyclohexyl)-peroxydicarbonate

Printing date 03.04.2024

Version: 11 (replaces version 10)

Revision: 15.02.2023

The Peroxide Company

Trade name: PEROXAN BCC

(Contd. of page 1) · Identification number(s) · EC number: 239-557-1 **SECTION 4: First aid measures** · 4.1 Description of first aid measures · 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. **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. 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combustion gases. · Additional information Cool endangered receptacles with water spray. Self-protection first!

SECTION 6: Accidental release 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.
	6 11 6 1
	Wear protective equipment. Keep unprotected persons away.
• 6.2 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.
· · · · · · · · · · · · · · · · · · ·	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before
	disposal.
	Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government
	regulations.

• 6.4 Reference to other sections In case of large spillage the environmental authority 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). 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. heavy-metal compounds and amines).

Printing date 03.04.2024

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



Revision: 15.02.2023

- IE -

Version: 11 (replaces version 10)

Trade name: PEROXAN BCC

(Contd. of page (Contd. of pag
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 smoke.
Protect from heat
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.
including any incompatibilities
Pay attention to the special requirements of your local autorithies for storing dangerous goods.
Store only in the original receptacle.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
Do not store or park organic peroxide together with heavy metal compounds and amines.
Store away from foodstuffs, drinks and feeding stuffs.
Keep container tightly sealed.
Protect from heat and direct sunlight.
Protect from contamination.
max.: +15°C
+30°C
+35°C
5.2
No further relevant information available.

Inhalative DNEL Longterm System 5,87 mg/m3 (Worker)

· PNECs 15520-11-3 di-(4-tert.-butylcyclohexyl)-peroxydicarbonate PNEC Marinewater sed 468,5 mg/kg sed dw (-) 0,39 mg/l (AF 100) PNEC Freshwater PNEC Freshwater sed 4.685 mg/kg sed dw (-) PNEC Soil 936,8 mg/kg soil dw (-) PNEC STP 2 mg/l (AF 10) PNEC Marinewater 0,039 mg/l (AF 1.000) · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls Appropriate engineering controls No further data; see section 7. (Contd. on page 4)

Version: 11 (replaces version 10)



Revision: 15.02.2023

Printing date 03.04.2024

Trade name: **PEROXAN BCC**

(Contd. of page 3
es, such as personal protective equipment
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.
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
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
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
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be
observed.
Tightly sealed goggles
Protective work clothing

SECTION 9: Physical and chemical properties

Vhitish Characteristic Indetermined. Iot applicable. Iay cause fire. Iot applicable. 40 °C (SADT) Jndetermined. ot determined.
haracteristic Indetermined. Iot applicable. Iay cause fire. Iot applicable. 40 °C (SADT) Jndetermined. ot determined
haracteristic Indetermined. Iot applicable. Iay cause fire. Iot applicable. 40 °C (SADT) Jndetermined. ot determined
Indetermined. lot applicable. lay cause fire. lot applicable. 40 °C (SADT) Jndetermined. ot determined
lot applicable. May cause fire. lot applicable. 40 °C (SADT) Jndetermined. ot determined
lay cause fire. lot applicable. 40 °C (SADT) Jndetermined. ot determined
lot applicable. 40 °C (SADT) Jndetermined. ot determined
40 °C (SADT) Jndetermined. ot determined
Jndetermined. ot determined
ot determined
ot determined
Not determined.
Not determined.
450-480 kg/m³
,
lowder
roduct is not selfigniting.
roduct is not explosive. However, formation of explosive air/dust nixtures are possible.
'r

Printing date 03.04.2024

Version: 11 (replaces version 10)

Revision: 15.02.2023

Trade name: PEROXAN BCC

	(Contd. o	f pag
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 ga	ases 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	> 3,7 %	

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

· Acute toxicity	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant for cl	assification:	
15520-11-3 di-(4-tertbutylcyclo	hexyl)-peroxydicarbonate	
Oral LD50 >5.000 mg/kg (rattus)		
Skin corrosion/irritation	Based on available data, the classification criteria are not met.	
• Serious eye damage/irritation	Low irritant effect	
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.	
-		(Contd. on page 6)



Printing date 03.04.2024

Version: 11 (replaces version 10)

Revision: 15.02.2023

(Contd. of page 5)

The Peroxide Company

Trade name: **PEROXAN BCC**

• 11.2 Information on other hazards • Endocrine disrupting properties

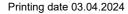
None of the ingredients is liste	d.	
SECTION 12: Ecological i	nformation	
12.1 Toxicity		
· Aquatic toxicity:		
15520-11-3 di-(4-tertbutylcy	clohexyl)-peroxydicarbonate	
LC50 / 96h 704 mg/l (oncorhy	nchus mykiss)	
12.2 Persistence and degrad Degree of elimination:	ability	
· Classification:		
15520-11-3 di-(4-tertbutylcy	clohexyl)-peroxydicarbonate	
Degradation (Not readily biod	egradable) (OECD 301 B)	
12.3 Bioaccumulative potent	ial	
· Partition coefficient: nOcta	nol/water: [Log Kow]	
15520-11-3 di-(4-tertbutylcyc	lohexyl)-peroxydicarbonate	8,34
98-52-2 4-tert-butylcycloh	exanol	3,23 (20°0
· Bioconcentration factor (BC	F)	
15520-11-3 di-(4-tertbutylcy	clohexyl)-peroxydicarbonate	
BCF 2.926		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPv		
· PBT:	This substance does not meet the PBT/vPvB criteria of REACH, Annex >	
· vPvB:	This substance does not meet the PBT/vPvB criteria of REACH, Annex >	XIII.
12.6 Endocrine disrupting properties	The product does not contain substances with endocrine disrupting prop	ortion
• 12.7 Other adverse effects • Additional ecological inform		enies.
· General notes:	Water hazard class 1 (German Regulation) (Assessment by list): slightly Do not allow undiluted product or large quantities of it to reach ground wa system.	

treatment (e. g. thermal utilization) under	
	terial to 10 %, the product must be supplied to a special observance of all official regulations.
• Waste disposal key: Please contact your hazardous waste disposers to number.	hold garbage. Do not allow product to reach sewage assign the right EWC-(European waste catalog)-

Uncleaned packaging:
 Recommendation:

This material and its container must be disposed of as hazardous waste.

14.1 UN number or ID number	
· ADR, IMDG	UN3114
IATA	Void
14.2 UN proper shipping name	
ADR	UN3114 ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE
	CONTROLLED (DI-(4-tertBUTYLCYCLOHEXYL)-
	PEROXYDICARBONATE)
· IMDG	ORGANIC PEROXIDE TYPE C, SOLID, TEMPERATURE CONTROLLE
	(DI-(4-tert -BUTYLCYCLOHEXYL)-PEROXYDICARBONATE)
·IATA	Void



Version: 11 (replaces version 10)

PERGAN The Peroxide Company

Revision: 15.02.2023

Trade name: **PEROXAN BCC**

44.2 Turnen out boround along (ag)	(Contd. of page
• 14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P2) Organia porovideo
Label	5.2 (P2) Organic peroxides. 5.2
·IMDG	
<u>si</u>	
· Class	5.2 Organic peroxides.
·Label	5.2
·IATA	
· Class	Void
· 14.4 Packing group	
ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Organic peroxides.
Hazard identification number (Kemler code):	-
Stowage Category Stowage Code	D SW1 Protected from sources of heat.
Slowage Code	SW3 Shall be transported under temperature control.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
\cdot 14.7 Maritime transport in bulk according to IMO instr	uments Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
· Transport category	Not permitted as Excepted Quantity 1
· Tunnel restriction code	D
· RID / GGVSEB:	no admission
·IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
·IATA	
· Remarks:	no admission
· Control temperature:	+30°C
Emergency temperature:	+35°C

SECTION 15: Regulatory information

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

 Directive 2012/18/EU

 Named dangerous substances

 - ANNEX I
 Substance is not listed.

 Seveso category
 P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

 Qualifying quantity (tonnes) for the application of lower-tier requirements
 50 t

 Qualifying quantity (tonnes) for the application of upper-tier requirements
 200 t

Printing date 03.04.2024

 * Data compared to the previous version altered.

Version: 11 (replaces version 10)



Revision: 15.02.2023

IE —

Trade name: **PEROXAN BCC**

· DIRECTIVE 2011/65/EU on the II	(Contd. of pag restriction of the use of certain hazardous substances in electrical and electronic equipment – Anno
None of the ingredients is listed.	
· REGULATION (EU) 2019/1148	
· · ·	DSIVES 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 c	n drug procursors
None of the ingredients is listed.	
 Regulation (EC) No 111/2005 la precursors 	aying down rules for the monitoring of trade between the Community and third countries in drug
None of the ingredients is listed.	
This information is based on our p	present knowledge. However, this shall not constitute a guarantee for any specific product features and sha
This information is based on our p not establish a legally valid contra Department issuing SDS:	oresent knowledge. However, this shall not constitute a guarantee for any specific product features and sha ictual relationship. Environment protection / Security of labour Tel: +49 2871 9902-0
This information is based on our p not establish a legally valid contra Department issuing SDS: Contact: Version number of previous version:	 bresent knowledge. However, this shall not constitute a guarantee for any specific product features and shall cual relationship. Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com 10 RiD: Règlement 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
not establish a legally valid contra • Department issuing SDS: • Contact: • Version number of previous	Toresent knowledge. However, this shall not constitute a guarantee for any specific product features and sha ictual relationship. Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com 10 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)