

Printing date 04.04.2024

Version: 9 (replaces version 8)

Revision: 28.02.2024

SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name:	PEROXAN C124
· CAS Number:	26322-14-5
· EC number:	247-611-0
· Registration number:	01-2119965138-30
1.2 Relevant identified uses of t	he 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:	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 identifi	
SECTION 2: Hazards identifi 2.1 Classification of the substar Classification according to Reg Org. Perox. F H242 Heating may	nce or mixture gulation (EC) No 1272/2008
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2.1 Classification of the substar Classification according to Reg Org. Perox. F H242 Heating may 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms	The substance is classified and labelled according to the GB CLP regulation.
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2.1 Classification of the substar Classification according to Reg Org. Perox. F H242 Heating may 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Hazard pictograms Signal word Hazard-determining components of labelling: Hazard statements	The substance is classified and labelled according to the GB CLP regulation. We cause a fire. The substance is classified and labelled according to the GB CLP regulation. We cause a fire. GHS02 Warning Dihexadecyl peroxodicarbonate H242 Heating may cause a fire. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
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· 3.1 Substances · CAS No. Description · Identification number(s)	26322-14-5 Dihexadecyl peroxodicarbonate	
· EC number:	247-611-0	—— GB —
( )	247-611-0	

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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.
<ul> <li>After skin contact:</li> <li>After eye contact:</li> </ul>	Immediately remove contaminated clothing. 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 mea	sures
5.1 Extinguishing media	
5.2 Special hazards arising from	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
the substance or mixture	Under certain fire conditions, traces of other toxic gases cannot be excluded.
5.2 Advice for firefighters	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 relea	se measures
6.1 Personal precautions,	
protective equipment and emergency procedures	Keep away from ignition sources.
emergency procedures	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:	
-	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
6.4 Deference to other costions	regulations.
6.4 Reference to other sections	In case of large spillage the environmental authority should be informed.
SECTION 7: Handling and st	orage
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. heavymetal 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.

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

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	Avoid shock and friction.
	Take precautionary measures against static discharges.
	Do not smoke.
	bo not smoke.
· Information about fire - and	•
explosion protection:	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.
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	Pay attention to the special requirements of your local autonities for storing dangerous goods.
storerooms and receptacles:	Store only in the original receptacle.
storerooms and receptacies.	Prevent any seepage into the ground.
	Use only receptacles specifically permitted for this substance/product.
· Information about storage in	Use only receptacies specifically permitted for this substance/product.
one common storage facility:	Do not store or park organic perovide together with begins match compounds and aminos
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	Store away norm toousturis, unities and reeding sturis.
	Keep container tightly sealed.
storage conditions:	Protect from heat and direct sunlight.
	Protect from contamination.
Recommended storage	Protect from contamination.
temperature (To maintain	
• •	max.: +15°C
quality):	
Control temperature:	+30°C
<ul> <li>Emergency temperature:</li> </ul>	+35°C

### 7.3 Specific end use(s)

+35 °C No further relevant information available.

### SECTION 8: Exposure controls/personal protection

	with limit values monitoring at the	Not required.
DNELs		
26322-14-5 [	Dihexadecyl peroxodio	carbonate
Dermal D	NEL Longterm System	33.33 mg/kg bw/day (Worker)
Inhalative D	NEL Longterm System	10 mg/m3 (Worker)
PNECs		
26322-14-5 [	Dihexadecyl peroxodi	carbonate
PNEC STP	12.2 mg/l (AF 100)	
Additional	information:	The lists valid during the making were used as basis.
· 8.2 Exposur · Appropriate	e controls e engineering	
controls		No further data; see section 7.
		such as personal protective equipment
hygienic m		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.
Respirator	y protection:	Not necessary if room is well-ventilated. (Contd. on page 4)

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	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	
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

9.1 Information on basic physical and chemical properties	
General Information	
· Colour:	Whitish
· Odour:	Characteristic
Melting point/freezing point:	Not applicable.
<ul> <li>Boiling point or initial boiling point and boiling range</li> </ul>	Not applicable.
· Flammability	May cause fire.
· Flash point:	Not applicable.
· Decomposition temperature:	+40 °C (SADT)
· Solubility	
· water:	Not miscible or difficult to mix.
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	not determined
Density and/or relative density	
· Density at 20 °C:	1.04 g/cm <sup>3</sup>
· Bulk density at 20 °C:	600 kg/m³
9.2 Other information	
· Appearance:	
· Form:	Solid
· Important information on protection of health and environment,	
and on safety.	
Explosive properties:	Product is not explosive. However, formation of explosive air/dust mixtures are possible.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	
	Void
· Oxidising gases	Void Void
• Oxidising gases • Gases under pressure	Void Void Void
• Oxidising gases • Gases under pressure • Flammable liquids	Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> </ul>	Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> </ul>	Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> </ul>	Void Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> </ul>	Void Void Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> </ul>	Void Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures in the statement of the</li></ul>	Void Void Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> </ul>	Void Void Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Oxidising liquids</li> </ul>	Void Void Void Void Void Void Void Void
<ul> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> <li>Self-reactive substances and mixtures</li> <li>Pyrophoric liquids</li> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> </ul>	Void Void Void Void Void Void Void Void

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· Corrosive to metals	Void	
<ul> <li>Desensitised explosives</li> </ul>	Void	
<ul> <li>Other safety characteristics</li> </ul>		
· Active oxygen	> 2.6 %	

SECTION 10: Stability and re	pactivity
· 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.
<ul> <li>10.4 Conditions to avoid</li> </ul>	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 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: 26322-14-5 Dihexadecyl peroxodicarbonate Oral LD50 >5,000 mg/kg (rattus) Skin corrosion/irritation Based on available data, the classification criteria are not met. · Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. · 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 hazards

 Endocrine disrupting properties Substance is not listed.

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

· 12.1 Toxicity	
· Aquatic toxicity:	
26322-14-5 Dihexadecyl peroxodicarbonate	
LC50 / 96h >1,000 mg/l (poecilia reticulata)	
<ul> <li>12.2 Persistence and degradability</li> <li>Degree of elimination:</li> </ul>	
· Classification:	
26322-14-5 Dihexadecyl peroxodicarbonate	
Degradation (Readily biodegradable) (OECD 301 D)	
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
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<ul> <li>12.4 Mobility in soil</li> </ul>	No further relevant information available.
12.5 Results of PBT and vPvB	assessment
· PBT:	This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.
· vPvB:	This substance does not meet the PBT/vPvB criteria of UK 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	
· Additional ecological informa	tion:
· General notes:	Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
SECTION 13: Disposal con	siderations

<ul> <li>13.1 Waste treatment methods</li> <li>Recommendation</li> </ul>	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.
· Waste disposal key:	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-
· Uncleaned packaging:	number.
Recommendation:	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	UN3120
<ul> <li>14.2 UN proper shipping name</li> <li>ADR</li> <li>IMDG</li> </ul>	UN3120 ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED (DICETYLPEROXYDICARBONATE) ORGANIC PEROXIDE TYPE F, SOLID, TEMPERATURE CONTROLLED
	(DICETYLPEROXYDICARBONATE)
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	5.2 (P2) Organic peroxides. 5.2
	5.2
Class	5.2 Organic peroxides.
· Label	5.2
· IATA · Class	x
Label	x
· 14.4 Packing group	
· ADR, IMDG	Void
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	Νο
•	
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> </ul>	Warning: Organic peroxides.
· EMS Number:	F-F,S-R
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat. SW3 Shall be transported under temperature control.
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· Segregation Code	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
14.7 Maritime transport in bulk according to IM	O instruments Not applicable.
· 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
· Remarks:	no admission
· Control temperature:	+30°C
· Emergency temperature:	+35°C

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

<ul> <li>Regulated explosives precurs</li> </ul>	Sors
Substance is not listed.	
· Regulated poisons	
Substance is not listed.	
· Reportable explosives precur	sors
Substance is not listed.	
· Reportable poisons	
Substance is not listed.	
Directive 2012/18/EU	
· Qualifying quantity (tonnes) f	or
the application of lower-tier	
requirements	50 t
· Qualifying quantity (tonnes) f	or
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 equipment - An
II	
Substance is not listed.	
· Annex I - RESTRICTED EXPL	OSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.	
· Annex II - REPORTABLE EXP	LOSIVES PRECURSORS
Substance is not listed.	
· Regulation (EC) No 273/2004	on drug precursors
Substance is not listed.	
<ul> <li>Regulation (EC) No 111/2005 precursors</li> </ul>	laying down rules for the monitoring of trade between the Community and third countries in drug
O	
Substance is not listed.	

• Please note: Take care of the respective local regulations.

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### **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.

<ul> <li>Department issuing SDS:</li> </ul>	Environment protection / Security of labour
· Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com
· Abbreviations and acronyms:	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 Carriage of Dangerous Goods by Road)
	IMDG: International Maritime Code for Dangerous Goods
	IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals
	EINECS: European Inventory of Existing Commercial Chemical Substances
	CAS: Chemical Abstracts Service (division of the American Chemical Society)
	DNEL: Derived No-Effect Level (UK REACH)
	PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent
	LD50: Lethal dose, 50 percent
	PBT: Persistent, Bioaccumulative and Toxic
	vPvB: very Persistent and very Bioaccumulative
* Deter som og det de s	Org. Perox. F: Organic peroxides – Type E/F
<ul> <li>* Data compared to the previous version altered.</li> </ul>	

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