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	according t	Safety data sheet o Regulation (EC) No 1907/2006, Article 31	The Peroxide Company
Printing date 03.04.2024		Version: 7 (replaces version 6)	Revision: 16.02.2023
SECTION 1: Identification of	the substance/r	nixture and of the company/undertaking	
· 1.1 Product identifier			
 Trade name: CAS Number: EC number: Registration number: 1.2 Relevant identified uses of t 		5 nixture and uses advised against	
· Application of the substance / No further relevant information available. · he mixture Reaction initiator For industrial use For industrial use			
• 1.3 Details of the supplier of the • Manufacturer/Supplier:	Safety data sheet PERGAN GmbH Hilfsstoffe für indu Schlavenhorst 71 D-46395 Bocholt Tel: +49 2871 990 Fax: +49 2871 99	ustrielle Prozesse 02-0	
 Further information obtainable from: 		ection / Security of labour E-mail: msds@pergan.com	
 1.4 Emergency telephone number: 	- Tel: +49 2871 99	902-0	
SECTION 2: Hazards identifi	cation		
• 2.1 Classification of the substar			
 Classification according to Reg 	ulation (EC) No 12		
	ble liquid and vapo	ur.	
Org. Perox. E H242 Heating Skin Irrit. 2 H315 Causes	may cause a fire.		
	ed of causing gene	tic defects.	
Aquatic Chronic 4 H413 May cau	ise long lasting hari	mful effects to aquatic life.	
· 2.2 Label elements			
 Labelling according to Regulation (EC) No 1272/2008 	The substance is	classified and labelled according to the GB CLP re	gulation
· Hazard pictograms			3
		V	
	GHS02 GHS07 G	HS08	
· Signal word	Warning		
 Hazard-determining components of labelling: Hazard statements 	H242 Heating ma H315 Causes skii H341 Suspected	liquid and vapour. y cause a fire.	
 Precautionary statements 	P210	Keep away from heat, hot surfaces, sparks, open	flames and other ignition sources. No
	P220	smoking. Keep away from dirt, rust, chemicals in particular accelerators (e. g. heavy metal compounds and a	
	P234 P243	Keep only in original packaging. Take action to prevent static discharges.	
	P264	Wash thoroughly after handling.	
	P280	Wear protective gloves/protective clothing/eye pro	otection/face protection/hearing
	P303+P361+P35	3 IF ON SKIN (or hair): Take off immediately all cor water [or shower].	ntaminated clothing. Rinse skin with

- water [or shower]. Store locked up. Protect from sunlight. P405 P410
- 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.

· 2.3 Other hazards

· Results of PBT and vPvB assessment · PBT:

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

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· vPvB:	This substance does not meet the PBT/vPvB criteria of UK REACH, Annex XIII.	(Contd. of page 2
SECTION 3: Composition/info	rmation on ingredients	
3.1 Substances · CAS No. Description · Identification number(s)	10508-09-5 di-tert-pentyl peroxide	
(<i>i i</i>	234-042-8	
SECTION 4: First aid measure	PS	
4.1 Description of first aid measur	Take care of personal protection for the first aider.	
	In case of unconsciousness place patient stably in side position for transportation. Take affected persons into fresh air and keep quiet. Immediately wash with water and soap and rinse thoroughly.	
· After eye contact:	Immediately remove contaminated clothing. Rinse opened eye for several minutes under running water.	
4.2 Most important symptoms and effects, both acute and	If symptoms persist consult doctor.	
4.3 Indication of any immediate medical attention and special		
treatment needed	No further relevant information available.	
SECTION 5: Firefighting meas	sures	
5.1 Extinguishing media · Suitable extinguishing agents: · For safety reasons unsuitable	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.	
extinguishing agents: 5.2 Special hazards arising from	Water with full jet	
	Under certain fire conditions, traces of other toxic gases cannot be excluded. Hydrocarbons, carbondioxide and -monoxid.	
Additional information	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!	

	GB
6.4 Reference to other sections	In case of large spillage the environmental authority should be informed.
	Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % before disposal.
······································	Ensure adequate ventilation.
6.3 Methods and material for containment and cleaning up:	Dispose contaminated material as waste according to section 13.
0.0 Matheada and material fam	Do not allow to enter sewers/ surface or ground water.
6.2 Environmental precautions:	Do not allow to anter covers/ ourfees or ground water
	Wear protective equipment. Keep unprotected persons away.
	Wear breathing apparatus with filter A during decomposition of materials.
emergency procedures	Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance.
protective equipment and	
 6.1 Personal precautions, 	

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SECTION 7: Handling and storage

Keep receptacles tightly sealed.			
Store in cool, dry place in tightly closed receptacles.			
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 smoke.			
Protect from heat.			
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.			
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 in a cool location.			
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.			
Keen container tightly cooled			
Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.			
Protect from heat and direct sunlight.			
Protect from contamination.			
Store in a cool place.			
max.: +30°C			
No further relevant information available			



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51150	(Contd. of page 3)		
· PNECs			
10508-09-5 di-tert-pent			
PNEC Marinewater sed			
PNEC Freshwater	0.144 mg/l (AF 50)		
PNEC Freshwater sed	19.07 mg/kg sed dw		
PNEC Soil	mg/kg soil dw		
PNEC STP	10 mg/l (AF 100)		
PNEC Marinewater	0.014 mg/l (AF 500)		
· Additional information	n: The lists valid during the making were used as basis.		
· 8.2 Exposure controls			
Appropriate engineer	•		
controls	No further data; see section 7.		
· General protective a	measures, such as personal protective equipment		
hygienic measures:	The usual precautionary measures are to be adhered to when handling chemicals.		
nygionio modouroor	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.		
	Be sure to clean skin thoroughly after work and before breaks.		
· Respiratory protection			
	Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.		
	Filter A2		
 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		
Demotrati di f	Neoprene		
· Penetration time of			
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		
De de marte ette			
• Body protection:	Protective work clothing		
SECTION 9: Physica	I and chemical properties		

· 9.1 Information on basic physical and chemical properties

- · General Information
- · Colour:
- · Odour:
- Melting point/freezing point: Boiling point or initial boiling point and boiling range
- · Flash point:
- Decomposition temperature:
- Solubility
- · water:
- · Partition coefficient n-octanol/water (log value)
- · Vapour pressure at 20 °C:
- Density and/or relative density Density at 20 °C:

colourless - yellowish Characteristic Not applicable. Not applicable. 28 °C >50 °C (SADT)

Not miscible or difficult to mix. not determined 5 hPa

0.827 g/cm³

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	(Contd. of pag
9.2 Other information	
Appearance:	
· Form:	Fluid
Important information on protection of health and environment,	
and on safety.	
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour.
· 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

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 classes as defined in Regulation (EC) No 1272/2008** • **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC	C50 value	es relevant for cla	assification:	
10508-0	09-5 di-te	ert-pentyl peroxid	e	
Oral LD50 >5,000 mg/kg (rattus)				
Dermal	Dermal LD50 >2,000 mg/kg (rattus)			
· Skin c	Skin corrosion/irritation Irritanting effect.			
· Seriou	us eye da	mage/irritation	Low irritant effect	
· Respir	ratory or	skin		
sensit	isation		Based on available data, the classification criteria are not met.	
· Germ	cell muta	agenicity	Suspected of causing genetic defects.	
· Carcin	nogenicit	У	Based on available data, the classification criteria are not met.	
· Repro	ductive t	oxicity	Based on available data, the classification criteria are not met.	
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· STOT-single exposure	Based on available data, the classification criteria are not met.	(Contd. of page
· 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		
· Endocrine disrupting properties		
Substance is not listed.		
SECTION 12: Ecological in	nformation	
12.1 Toxicity		
Aquatic toxicity:	No further relevant information available.	
12.2 Persistence and degrada	ability	
Degree of elimination:		
· Classification:		
10508-09-5 di-tert-pentyl pero	xide	
Degradation (Not readily biode	egradable) (OECD 301 D)	
· 12.3 Bioaccumulative potenti	• , , ,	
· Partition coefficient: nOctar		
Tartition coemcient. noctar	ion water. [Log itow]	4,7 (25 °C
		4,7 (25 C
· Bioconcentration factor (BC	F)	
10508-09-5 di-tert-pentyl pero	xide	
BCF 614		
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvE	3 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.	
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects		
Additional ecological inform		
· General notes:	Water hazard class 2 (German Regulation) (Assessment by list): 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.	

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
Waste disposal key:	system. 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.

· 14.1 UN number or ID number	
ADR, IMDG, IATA	UN3107
· 14.2 UN proper shipping name	
ADR	UN3107 ORGANIC PEROXIDE TYPE E, LIQUID (DI-tert-
	AMYLPEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE E, LIQUID (DI-tert-AMYLPEROXIDE)
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	(Contd. of
14.3 Transport hazard class(es)	
ADR	
· Class	5.2 (P1) Organic peroxides.
	5.2 (PT) Organic peroxides. 5.2
IMDG, IATA	
W	
· Class · Label	5.2 Organic peroxides.
	5.2
14.4 Packing group ADR, IMDG, IATA	Void
, ,	Void
14.5 Environmental hazards: Marine pollutant:	No
•	
14.6 Special precautions for user · Hazard identification number (Kemler code):	Warning: Organic peroxides.
· Stowage Category	D
· Stowage Code	SW1 Protected from sources of heat.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
	SG72 See 7.2.6.3.2.
14.7 Maritime transport in bulk according to IMO instru-	uments Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	125 ml
Excepted quantities (EQ)	Code: E0
Turney autoration and	Not permitted as Excepted Quantity
· Transport category · Tunnel restriction code	2 D
· RID / GGVSEB:	like ADR
Limited quantities (LQ)	125 ml
· Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity

SECTION 15: Regulatory information

Substance is not listed. · Regulated poisons Substance is not listed. · Reportable explosives precursors Substance is not listed. · Reportable poisons Substance is not 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 50 t · Qualifying quantity (tonnes) for the application of upper-tier	Regulated explosives pre	ursors	
Substance is not listed. Reportable explosives precursors Substance is not listed. Reportable poisons Substance is not 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	Substance is not listed.		
 Reportable explosives precursors Substance is not listed. Reportable poisons Substance is not 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 	· Regulated poisons		
Substance is not listed. Reportable poisons Substance is not 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	Substance is not listed.		
Reportable poisons Substance is not 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	· Reportable explosives pr	cursors	
Substance is not 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	Substance is not 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 	· Reportable poisons		
Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier	Substance is not listed.		
the application of lower-tier requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier	Directive 2012/18/EU		
requirements 50 t Qualifying quantity (tonnes) for the application of upper-tier	Qualifying quantity (tonn) for	
Qualifying quantity (tonnes) for the application of upper-tier	the application of lower-t	ŕ	
the application of upper-tier	requirements	50 t	
the application of upper-tier	Qualifying quantity (tonn) for	
requirements 200 t			
	requirements	200 t	

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DIRECTIVE 2011/65/EU on the	Contd. of page) restriction of the use of certain hazardous substances in electrical and electronic equipment – Anne
II	
Substance is not listed.	
· Regulation (EC) No 273/2004 o	n drug precursors
Substance is not listed.	
 Regulation (EC) No 111/2005 la precursors 	aying down rules for the monitoring of trade between the Community and third countries in drug
Substance is not listed.	
National regulations:	
· Other regulations, limitations a · Please note:	and prohibitive regulations Take care of the respective local regulations.
SECTION 16: Other informat	
not establish a legally valid contra	present knowledge. However, this shall not constitute a guarantee for any specific product features and sha ctual relationship.
Department issuing SDS: Contact:	Environment protection / Security of labour 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)
	ICAO: International Civil Aviation Organisation 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)
	CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH)
	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
	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
	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 Flam. Liq. 3: Flammable liquids – Category 3
	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