

Printing date 03.04.2024

Version: 9 (replaces version 8)

Revision: 16.02.2023

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

· 1.1 Product identifier

**PEROXAN LP-40 W** 

· Trade name:	PEROXAN LP-40 W
• 1.2 Relevant identified uses of the	he substance or mixture and uses advised against No further relevant information available.
<ul> <li>Application of the substance / the mixture</li> </ul>	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
<ul> <li>Further information obtainable from:</li> <li>1.4 Emergency telephone number:</li> </ul>	Environment protection / Security of labour Qualified person: E-mail: msds@pergan.com - Tel: +49 2871 9902-0

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

#### · 2.1 Classification of the substance or mixture $\cdot$ Classification according to Regulation (EC) No 1272/2008 Org. Perox. F H242 Heating may cause a fire.

• 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 • Hazard pictograms	The product is classified and labelled according to the CLP regulation.
· Signal word	Warning
<ul> <li>Hazard-determining components of labelling:</li> <li>Hazard statements</li> <li>Precautionary statements</li> </ul>	<ul> <li>dilauroyl peroxide</li> <li>H242 Heating may cause a fire.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P220 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).</li> <li>P234 Keep only in original packaging.</li> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</li> <li>P370+P378 In case of fire: Use CO2, powder or water spray to extinguish.</li> <li>P410 Protect from sunlight.</li> <li>P411+P235 Store at temperatures not exceeding +30°C. Keep cool.</li> <li>P420 Store separately.</li> <li>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</li> </ul>
<ul> <li>2.3 Other hazards</li> <li>Results of PBT and vPvB asses</li> </ul>	ssment
• PBT: • vPvB: • Determination of endocrine- disrupting properties	The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The product does not contain substances with endocrine disrupting properties.

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

· 3.2 Mixtures			
<ul> <li>Dangerous components:</li> </ul>			
CAS: 105-74-8 EINECS: 203-326-3 Index number: 617-003-00-3 Reg-No.: 01-2119513346-45		Org. Perox. D, H242	30-40%
• Additional information:	For the wording of the listed hazard phrases refer to section 16.		

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SECTION 4: First aid measur	res
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	isures
5.1 Extinguishing media	
<ul> <li>Suitable extinguishing agents:</li> <li>5.2 Special hazards arising from</li> </ul>	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.
	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!
6.1 Personal precautions, protective equipment and emergency procedures	Keep away from ignition sources. In case of further temperature should be cooled with waterspray from a safe distance. Wear breathing apparatus with filter A during decomposition of materials.
6.2 Environmental precautions:	Wear protective equipment. Keep unprotected persons away.
	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. Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government
	regulations.
6.4 Reference to other sections	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
	See Section 13 for disposal information.
	In case of large spillage the environmental authority should be informed.
SECTION 7: Handling and st	orage
7.1 Precautions for safe	
handling	Keep away from heat and direct sunlight.
	Open and handle receptacle with care. Prevent formation of aerosols.
	Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
	Do not refill residue into storage receptacles. Restrict the quantity stored at the work place.
	Before break and at the end of work hands should be thoroughly washed.
	Only use tools made of suitable materials (e. g. polyethylene or stainless steel).
	Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. hea metal compounds and amines).

metal compounds and amines). While using do not eat, drink or smoke. Do not generate flames or sparks. Printing date 03.04.2024

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

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(Contd. of page 2) 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. · 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. 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. · 7.2 Conditions for safe storage, including any incompatibilities · Storage: Pay attention to the special requirements of your local autorithies for storing dangerous goods. · Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Prevent any seepage into the ground. Use only receptacles specifically permitted for this substance/product. · Information about storage in one common storage facility: Do not store or park organic peroxide together with heavy metal compounds and amines. Store away from foodstuffs, drinks and feeding stuffs. Further information about storage conditions: Protect from heat and direct sunlight. Protect from contamination. · Recommended storage temperature (To maintain +5 .... +30 °C quality): Storage class: 5.2 7.3 Specific end use(s) No further relevant information available

#### SECTION 8: Exposure controls/personal protection

General protective and hygienic measures:

	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.	
·DNELs		
105-74-8 dilauroyl peroxide		
Dermal DNEL Longterm System	100 mg/kg bw/day (Worker)	
Inhalative DNEL Longterm System	35 mg/m3 (Worker)	
PNECs		
105-74-8 dilauroyl peroxide		
PNEC Marinewater sed 0,32 mg/kg	sed dw (AF 1.000)	
PNEC Freshwater 0,0089 mg/	'l (AF 10)	
PNEC Freshwater sed 3,2 mg/kg s	sed dw (AF 100)	
PNEC Soil 41,3 mg/kg	soil dw (-)	
PNEC STP 10 mg/l (AF	<sup>-</sup> 100)	
PNEC Marinewater 0,00089 mg	g/l (AF 100)	
Additional information:	The lists valid during the making were used as basis.	
Appropriate engineering     controls     No further data; see section 7.     Individual protection measures, 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 Printing date 03.04.2024

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	Wash hands before breaks a	
	Store protective clothing sepa	
	Do not eat, drink, smoke or s	
	Use skin protection cream fo	ghly after work and before breaks.
· Respiratory protection:	Not necessary if room is well	
		volution.
		tory device when it exceed exposure limit and when insufficiently ventilated.
	Filter A2	
· Hand protection		e gloves with CE-labelling of category III. e material on consideration of the penetration times, rates of diffusion and the
	Protective gloves	
· Material of gloves	quality and varies from manu Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR	gloves does not only depend on the material, but also on further marks of Ifacturer to manufacturer.
	Neoprene	
<ul> <li>Penetration time of glove material</li> </ul>	The exact break trough time observed.	has to be found out by the manufacturer of the protective gloves and has to be
· Eye/face protection	Tightly sealed goggle	es
· Body protection:		
body protection.	Protective work cloth	ning
SECTION 9: Physical and c	chemical properties	
• 9.1 Information on basic phys	ical and chemical properties	
· Colour:		white - yellowish
· Odour:		Characteristic
· Odour threshold:		Not determined.
<ul> <li>Melting point/freezing point:</li> </ul>		Not applicable.
<ul> <li>Boiling point or initial boiling</li> </ul>		Not applicable.
· Flammability		Not applicable.
<ul> <li>Lower and upper explosion</li> </ul>	limit	
· Lower:		Not determined.
· Upper:		Not determined.

· Upper:	Not determined.	
· Flash point:	Not determined.	
Decomposition temperature:	+50 °C (SADT)	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
· Dynamic:	Not determined.	
Solubility		
· water:	Undetermined.	
<ul> <li>Partition coefficient n-octanol/water (log value)</li> </ul>	not determined	
· Vapour pressure:	Not determined.	
Density and/or relative density		
· Density at 20 °C:	1 g/cm <sup>3</sup>	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· 9.2 Other information	No further relevant information available.	
· Appearance:		
Form:	Suspension	
· Important information on protection of health and enviro	onment,	
and on safety.		
· Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Change in condition		
· Evaporation rate	Not determined.	
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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	1,5 - 1,7 %	

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

<ul> <li>10.1 Reactivity</li> <li>10.2 Chemical stability</li> <li>Thermal decomposition /</li> </ul>	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.
<ul> <li>10.3 Possibility of hazardous</li> </ul>	
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**

<ul> <li>11.1 Information on hazard class</li> <li>Acute toxicity</li> </ul>	ses as defined in Regulation (EC) No 1272/2008 Based on available data, the classification criteria are not met.	
· LD/LC50 values relevant for cla	assification:	
105-74-8 dilauroyl peroxide		
Oral LD50 >5.000 mg/k	kg (rattus)	
Inhalative LC50 / 4h 200 mg/l (ra	ttus)	
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.	
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· 11.2 Information on other hazards

· Endocrine disrupting proper		
None of the ingredients is listed		
	for many times	
SECTION 12: Ecological in	normation	
12.1 Toxicity		
· Aquatic toxicity:		
105-74-8 dilauroyl peroxide		
LC50 / 96h >1.000 mg/l (poecil	ia reticulata)	
EC50 >1.000 mg/l (bacter	ria)	
12.2 Persistence and degrada	bility	
· Degree of elimination:		
· Classification:		
105-74-8 dilauroyl peroxide		
Degradation (Readily biodegra	idable) (OECD 301 D)	
12.3 Bioaccumulative potentia	al	
· Partition coefficient: nOctan	iol/water: [Log Kow]	
105-74-8 dilauroyl peroxide		10,3
68131-40-8 Alkohol, C11-15- s	ekundär. ethoxylat	> 5,9 (25°C
12.4 Mobility in soil	No further relevant information available.	
12.5 Results of PBT and vPvE	3 assessment	
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria accord	J ,
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria accord	ding to REACH, annex XIII.
12.6 Endocrine disrupting		
properties	The product does not contain substances with endocrine disrupting properties.	
12.7 Other adverse effects	No further relevant information available.	
Additional ecological inform		
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): slightly h Do not allow undiluted product or large quantities of it to reach ground w system.	

SECTION 13: Disposal cons	iderations
<ul> <li>13.1 Waste treatment methods</li> <li>Recommendation</li> </ul>	After diluting with a suitable desentisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.
	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· Waste disposal key:	Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)- number.
<ul> <li>Uncleaned packaging:</li> <li>Recommendation:</li> </ul>	This material and its container must be disposed of as hazardous waste.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3109
· 14.2 UN proper shipping name · ADR · IMDG, IATA	UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (DILAUROYL PEROXIDE) ORGANIC PEROXIDE TYPE F, LIQUID (DILAUROYL PEROXIDE)
· 14.3 Transport hazard class(es) · ADR	
Class	5.2 (P1) Organic peroxides.
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· Label	5.2	
Class	5.2 Organic peroxides.	
· Label	5.2	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No	
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>Segregation Code</li> </ul>	Warning: Organic peroxides. - D SW1 Protected from sources of heat. 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 instrum	ents Not applicable.	
· Transport/Additional information:		
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	125 ml Code: E0 Not permitted as Excepted Quantity 2 D	
· RID / GGVSEB:	like ADR	
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	125 ml Code: E0 Not permitted as Excepted Quantity	

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

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

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

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases	H242 Heating may cause a fire.
<ul> <li>Department issuing SDS:</li> <li>Contact:</li> </ul>	Environment protection / Security of labour Tel: +49 2871 9902-0 E-mail: mail@pergan.com
<ul> <li>Version number of previous version:</li> </ul>	8
• Abbreviations and acronyms:	<ul> <li>C</li> <li>Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)</li> <li>ICAO: International Civil Aviation Organisation</li> <li>ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)</li> <li>IMDC: International Maritime Code for Dangerous Goods</li> <li>IATA: International Maritime Code for Dangerous Goods</li> <li>IATA: International Maritime Code for Dangerous Goods</li> <li>IATA: International Air Transport Association</li> <li>GHS: Globally Harmonised System of Classification and Labelling of Chemicals</li> <li>EINECS: European Inventory of Existing Commercial Chemical Substances</li> <li>ELINCS: European List of Notified Chemical Substances</li> <li>ELINCS: Chemical Abstracts Service (division of the American Chemical Society)</li> <li>DNEL: Derived No-Effect Level (REACH)</li> <li>PNEC: Predicted No-Effect Concentration (REACH)</li> <li>LC50: Lethal concentration, 50 percent</li> <li>LD50: Lethal dose, 50 percent</li> <li>PD51: Persistent, Bioaccumulative and Toxic</li> <li>vPVB: very Persistent and very Bioaccumulative</li> <li>Org. Perox. D: Organic peroxides – Type C/D</li> <li>Org. Perox. F: Organic peroxides – Type E/F</li> </ul>
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