

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

PFROXAN I P-40 W

· Trade name:	PEROXAN LP-40 W
· 1.2 Relevant identified uses of the	ne substance or mixture and uses advised against
 Application of the substance / the mixture 	No further relevant information available. 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
1.4 Emergency telephone	Qualified person: E-mail: msds@pergan.com
number:	- 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 GB CLP regulation.
	GHS02
· Signal word	Warning
 Hazard-determining components of labelling: Hazard statements Precautionary statements 	 dilauroyl peroxide H242 Heating may cause a fire. 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. 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. 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.
2.3 Other hazards	J. J
 Results of PBT and vPvB asses PBT: 	ssment The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
vPvB:	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: 			
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.	·	GB

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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: After skin contact:	Take affected persons into fresh air and keep quiet. Immediately remove contaminated clothing.
After eye contact:	Rinse opened eye for several minutes under running water.
After swallowing: 4.2 Most important symptoms and effects, both acute and	If symptoms persist consult doctor.
delayed 4.3 Indication of any immediate	No further relevant information available.
medical attention and special treatment needed	No further relevant information available.
SECTION 5: Firefighting mea	isures
5.1 Extinguishing media Suitable extinguishing agents: 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: Additional information	Do not inhale explosion gases or combustion gases. Cool endangered receptacles with water spray. Self-protection first!
SECTION 6: Accidental relea 6.1 Personal precautions, protective equipment and emergency procedures	se measures Keep away from ignition sources.
6.2 Environmental precautions:	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. Inform respective authorities in case of seepage into water course or sewage system.
0.2 Environmental precautions.	Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for	
	Ensure adaguate ventilation
containment and cleaning up:	disposal.
	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.
	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. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.
	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. See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.
6.4 Reference to other sections SECTION 7: Handling and st	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. 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.
6.4 Reference to other sections SECTION 7: Handling and st 7.1 Precautions for safe	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % befo disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of 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.
6.4 Reference to other sections SECTION 7: Handling and st 7.1 Precautions for safe	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. 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.
containment and cleaning up: 6.4 Reference to other sections SECTION 7: Handling and st 7.1 Precautions for safe handling	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. 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.
6.4 Reference to other sections SECTION 7: Handling and st 7.1 Precautions for safe	Large quantities should be diluted with suitable desensitation agent to a concentration below 10 % befo disposal. Soak up with absorbant material (e. g. Vermiculit) and dispose of 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.

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. heavymetal compounds and amines).

While using do not eat, drink or smoke. Do not generate flames or sparks.



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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): 7.3 Specific end use(s) No further relevant information available. **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

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 perc	105-74-8 dilauroyl peroxide		
Dermal DNEL Longte	rm System 100 mg/kg bw/day (Worker)		
Inhalative DNEL Longte	erm System 35 mg/m3 (Worker)		
· PNECs			
105-74-8 dilauroyl perc	xide		
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 sed dw (AF 100)		
PNEC Soil	41.3 mg/kg soil dw (-)		
PNEC STP	10 mg/l (AF 100)		
PNEC Marinewater	0.00089 mg/l (AF 100)		
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			
	controls No further data; see section 7. · Individual protection measures, such as personal protective equipment		
· General protective and			
hygienic measures:			
	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing		
	Wash hands before breaks and at the end of work.		
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	Store protective clothing sep	
	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	
Respiratory protection.		-vermated.
	Use suitable respirat	tory device when it exceed exposure limit and when insufficiently ventilated.
Hand protection	Filter A2	
• Hand protection		e gloves with CE-labelling of category III. ve material on consideration of the penetration times, rates of diffusion and the penetration times and the penetration of the penetration times are set o
	Protective gloves	
· Material of gloves		gloves does not only depend on the material, but also on further marks of
	quality and varies from manu	ifacturer to manufacturer.
	Butyl rubber, BR	
	Fluorocarbon rubber (Viton) Nitrile rubber, NBR	
	Neoprene	
· Penetration time of glove	Neopielle	
material	The exact break trough time	has to be found out by the manufacturer of the protective gloves and has to
	observed.	······································
Eye/face protection		
	Tightly sealed goggle	es
Body protection:		
Body protection.	Protective work cloth	ning
		5
ECTION 9: Physical and ch		
.1 Information on basic physic General Information	al and chemical properties	
Colour:		white - yellowish
Odour:		Characteristic
· Odour threshold:		Not determined.
Melting point/freezing point:		Not applicable.
Boiling point or initial boiling	point and boiling range	Not applicable.
Flammability		Not applicable.
Lower and upper explosion lin	nit	
· Lower:		Not determined.
Upper:		Not determined.
Flash point:		Not determined.
Decomposition temperature:		+50 °C (SADT)
pH Viceocity:		Not determined.
Viscosity:		Not determined
· Kinematic viscosity		Not determined.

· Dynamic: Not determined. · Solubility water: Undetermined. · Partition coefficient n-octanol/water (log value) not determined · Vapour pressure: Not determined. Density and/or relative density
 Density at 20 °C: 1 g/cm³ · 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 environment, 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. · Information with regard to physical hazard classes · Explosives Void

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· 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 g	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

 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/LC50	· LD/LC50 values relevant for classification:			
105-74-8 0	105-74-8 dilauroyl peroxide			
Oral	LD50	>5,000 mg/ł	kg (rattus)	
Inhalative	LC50 / 4h	200 mg/l (ra	ttus)	
· Skin cori	rosion/irrit	ation	Based on available data, the classification criteria are not met.	
· Serious e	eye damag	e/irritation	Based on available data, the classification criteria are not met.	
· Respirate	ory or skin			
sensitisa	tion		Based on available data, the classification criteria are not met.	
· Germ cel	ll mutagen	icity	ty Based on available data, the classification criteria are not met.	
· Carcinog	jenicity		Based on available data, the classification criteria are not met.	
· Reprodu	ctive toxic	ity	y Based on available data, the classification criteria are not met.	
STOT-sir	 STOT-single exposure 		re Based on available data, the classification criteria are not met.	
· STOT-rep	peated exp	osure	Based on available data, the classification criteria are not met.	
· Aspiratio	n hazard		Based on available data, the classification criteria are not met.	
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· 11.2 Information on other hazards

None of the ingradiants is lists		
None of the ingredients is liste	30.	
SECTION 12: Ecological i	information	
SECTION 12. ECOlogical	intornation	
12.1 Toxicity		
· Aquatic toxicity:		
105-74-8 dilauroyl peroxide		
LC50 / 96h >1,000 mg/l (poed	cilia reticulata)	
EC50 >1,000 mg/l (bact	eria)	
12.2 Persistence and degrad	lability	
 Degree of elimination: 		
· Classification:		
105-74-8 dilauroyl peroxide		
Degradation (Readily biodeg	radable) (OECD 301 D)	
12.3 Bioaccumulative potent	tial	
· Partition coefficient: nOcta	anol/water: [Log Kow]	
105-74-8 dilauroyl peroxide)	10,3
68131-40-8 Alkohol, C11-15-	sekundär. ethoxylat	> 5,9 (25°C
12.4 Mobility in soil	No further relevant information available.	· · · · ·
12.5 Results of PBT and vPv		
· PBT:	The substances in the mixture do not meet the PBT/vPvB criteria a	
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria a	ccording to UK 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		http://www.doc.org/former.com/arm
· General notes:	Water hazard class 1 (German Regulation) (Self-assessment): sligh Do not allow undiluted product or large quantities of it to reach grou system.	

SECTION 13: Disposal cons	iderations
 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 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.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3109
• 14.2 UN proper shipping name • ADR	UN3109 ORGANIC PEROXIDE TYPE F, LIQUID (DILAUROYL PEROXIDE)
· IMDG, IATA · 14.3 Transport hazard class(es)	ORGANIC PEROXIDE TYPE F, LIQUID (DILAUROYL PEROXIDE)
· ADR	
.	
· Class	5.2 (P1) Organic peroxides.
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·Label	5.2	
· IMDG, IATA		
Class	5.2 Organic peroxides.	
· Label	5.2	
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):	- D	
 Stowage Category Stowage Code 	D SW1 Protected from sources of heat.	
Stowage Code Segregation Code	SG35 Stow "separated from" SGG1-acids	
Segregation Code	SG36 Stow "separated from" SGG18-alkalis.	
	SG72 See 7.2.6.3.2.	
14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.	
· Transport/Additional information:		
ADR		
 Limited quantities (LQ) 	125 ml	
 Excepted quantities (EQ) 	Code: E0	
-	Not permitted as Excepted Quantity	
 Transport category Tunnel restriction code 	2 D	
· RID / GGVSEB:	like ADR	
IMDG		
Limited quantities (LQ)	125 ml	
 Excepted quantities (EQ) 	Code: E0	
	Not permitted as Excepted Quantity	

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture · Poisons Act
· 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 equipment – Annex II
None of the ingredients is listed.
Annex I - RESTRICTED EXPLOSIVES 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.
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Degulation (EC) No 070/0004	(Contd. of page
 Regulation (EC) No 273/2004 of None of the ingredients is listed. 	n arug precursors
3	
 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.	
National regulations:	
· Other regulations, limitations	and prohibitive regulations
Please note:	Take care of the respective local regulations.
SECTION 16: Other informat	ion
This information is based on our p not establish a legally valid contra	resent knowledge. However, this shall not constitute a guarantee for any specific product features and sha ctual relationship.
· Relevant phrases	H242 Heating may cause a fire.
Department issuing SDS:	Environment protection / Security of labour
Contact:	Tel: +49 2871 9902-0
	E-mail: mail@pergan.com RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the
Abbreviations and acronyms:	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 ELINCS: European List of Notified 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
	Org. Perox. D: Organic peroxides – Type C/D Org. Perox. F: Organic peroxides – Type E/F
* Data compared to the	org. r crox. r . organic poloxidos - rypo Er
previous version altered.	