

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 fein · Trade name:

· CAS Number: 105-74-8 203-326-3 · EC number: · Index number: 617-003-00-3 · Registration number: 01-2119513346-45

1.2 Relevant identified uses of the 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 safety data sheet

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 identification**

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Org. Perox. D H242 Heating may cause a fire.

· 2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

· Hazard pictograms



· Signal word Danger

· Hazard-determining

components of labelling: dilauroyl peroxide

· Hazard statements H242 Heating may cause a fire.

· Precautionary statements 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. P273 Avoid release to the environment.

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+I P235 Store at temperatures not exceeding +30°C. Keep cool. P420 Do not mix with peroxide-accelerators or reducing agents.

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

· Determination of endocrine-

disrupting properties The product does not contain substances with endocrine disrupting properties.

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

· 3.1 Substances

CAS No. Description 105-74-8 dilauroyl peroxide

Identification number(s)

203-326-3 · EC number:

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#### **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 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 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: Additional information Do not inhale explosion gases or combustion gases.

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.

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

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.

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 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).

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.

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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. 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

storerooms and receptacles:

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.

· 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:

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.

· Recommended storage temperature (To maintain

quality):

max : +30°C

Storage class: 5.2

· 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: Not required.

·DNELs

105-74-8 dilauroyl peroxide

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 sed dw (AF 100) PNEC Soil 41,3 mg/kg soil dw (-) PNEC STP 10 mg/l (AF 100) 0,00089 mg/l (AF 100) **PNEC Marinewater** 

The lists valid during the making were used as basis. Additional information:

8.2 Exposure controls

Appropriate engineering

controls No further data; see section 7.

Individual protection measures, such as personal protective equipment

General protective and

hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

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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.

· Respiratory protection: Not necessary if room is well-ventilated.

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.

Butvl 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: · Odour:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range

· Flammability Flash point:

Decomposition temperature:

· Solubility

· water:

· Partition coefficient n-octanol/water (log value)

· Density and/or relative density

Density: Particle characteristics White

Odourless Not applicable.

Not applicable. May cause fire. Not applicable.

+50 °C (SADT)

Insoluble. not determined

Not determined.

See section 3.

· 9.2 Other information

Appearance:

· Form:

Solid Powder

· 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 Void

· Flammable gases · Aerosols

· Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Void

Void

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(Contd. of page 4) · 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 Other safety characteristics Active oxygen ca. 4,0 %

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

· 10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition /

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 selfaccelerating 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 10.4 Conditions to avoid Self-accelerating decomposition at SADT. 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:

105-74-8 dilauroyl peroxide

>5.000 mg/kg (rattus) Oral LD50 Inhalative LC50 / 4h 200 mg/l (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. Based on available data, the classification criteria are not met.

STOT-single exposure 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.

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

· 12.1 Toxicity

· Aquatic toxicity:

105-74-8 dilauroyl peroxide

LC50 / 96h >1.000 mg/l (poecilia reticulata)

>1.000 mg/l (bacteria)

12.2 Persistence and degradability

Degree of elimination:

· Classification:

105-74-8 dilauroyl peroxide

Degradation (Readily biodegradable) (OECD 301 D)

12.3 Bioaccumulative potential

Partition coefficient: nOctanol/water: [Log Kow]

10,3

· 12.4 Mobility in soil

No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT:

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.

· 12.6 Endocrine disrupting

properties

· vPvB:

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

· Additional ecological information:

· 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

## **SECTION 13: Disposal considerations**

· 13.1 Waste treatment methods

· Recommendation



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.

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 UN3106

· 14.2 UN proper shipping name

· ADR UN3106 ORGANIC PEROXIDE TYPE D, SOLID (DILAUROYL

PEROXIDE)

· IMDG, IATA ORGANIC PEROXIDE TYPE D, SOLID (DILAUROYL PEROXIDE)

· 14.3 Transport hazard class(es)

· ADR



Class 5.2 (P1) Organic peroxides.

· Label

· IMDG, IATA



Class 5.2 Organic peroxides.

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· 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):	•	
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.	
· 14.7 Maritime transport in bulk according to IMO instr	uments Not applicable.	
· Transport/Additional information:		
· ADR		
· Limited quantities (LQ)	500 q	
Excepted quantities (EQ)	Code: E0	
	Not permitted as Excepted Quantity	
Transport category	2	
· Tunnel restriction code	D	
· RID / GGVSEB:	like ADR	
· IMDG		
Limited quantities (LQ)	500 g	
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
- 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 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex

Substance is not listed.

- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed

· Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not 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.

· Department issuing SDS: Environment protection / Security of labour

· Contact: Tel: +49 2871 9902-0

E-mail: mail@pergan.com

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· Version number of previous version:

· 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

IMDG: International Maritime Code for Dangerous Goods

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 (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
PVB: very Persistent and very Bioaccumulative

vPvB: very Persistent and very Bioaccumulative Org. Perox. D: Organic peroxides – Type C/D

\* \* Data compared to the previous version altered.

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