

Printing date 27.03.2020 Version: 3 Revision: 24.03.2020

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

· 1.1 Product identifier

PEROXAN CND · Trade name:

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

Competent person:

* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com * Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com * Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com

Security of labour

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

Flam. Liq. 3 H226 Flammable liquid and vapour. Org. Perox. D H242 Heating may cause a fire.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

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

Hazard pictograms



· Signal word Danger

· Hazard-determining

components of labelling:

· Precautionary statements

Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

1-methyl-1-phenylethyl peroxyneodecanoate

Hazard statements H226 Flammable liquid and vapour. H242 Heating may cause a fire.

H304 May be fatal if swallowed and enters airways. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and P220

accelerators (e.g. heavy metal compounds and amines).

P234 Keep only in original packaging.

P243 Take action to prevent static discharges.

P264 Wash thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection/hearing P280

protection. P301+P310

IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331

Do NOT induce vomiting. P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Store locked up

P405 P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding -10°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

· PRT· Not applicable.

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· vPvB: Not applicable. (Contd. of page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Dangerous components:		
CAS: 26748-47-0	1-methyl-1-phenylethyl peroxyneodecanoate	70-80%
EINECS: 247-956-7	Org. Perox. D, H242	
Reg-No.: 01-2120767069-44		
CAS: 93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	20-25%
	Alternative CAS number: 13475-82-6	
Reg-No.: 01-2119490725-29	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	
· Additional information:	For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

· After skin contact:

Take care of personal protection for the first aider.

· After inhalation: 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.

Immediately remove contaminated clothing.

Rinse opened eye for several minutes under running water. After eye contact:

 After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate

medical attention and special treatment needed

No further relevant information available.

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.

· For safety reasons unsuitable 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!

Water with full jet

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:

Dispose contaminated material as waste according to item 13.

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.

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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 storage

· 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. 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.

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: Requirements to be met by Pay attention to the special requirements of your local autorithies for storing dangerous goods.

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:

Keep container tightly sealed. Protect from heat and direct sunlight. Protect from contamination.

Storage in a collecting room is required.

· Recommended storage temperature (To maintain

quality):

max.: -15 °C -10 °C 0°C

5.2

 Control temperature: **Emergency temperature:** Storage class: · 7.3 Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

· Additional information about

design of technical facilities: No further data: see item 7.

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· 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

26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate DNEL Longterm System 1.4 mg/kg bw/day (Worker)

Inhalative DNEL Longterm System 4.93 mg/m3 (Worker)

· PNECs

26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate

PNEC Marinewater sed | 0.00376 mg/kg sed dw (-) **PNEC Freshwater** 0.0038 mg/l (AF 1.000) PNEC Freshwater sed 0.0376 mg/kg sed dw (-) PNFC Soil 0.00529 mg/kg soil dw (-) PNFC STP 1.4 mg/l (AF 10)

PNEC Marinewater 0.00038 mg/l (AF 10.000)

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

8.2 Exposure controls

· Personal protective equipment:

General protective and

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

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: Not necessary if room is well-ventilated.

Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.



Filter A2

· Protection of hands: 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 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

· Appearance:

· Form: Fluid

· Colour: colourless - yellowish Odour: Characteristic

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· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Not applicable.
Initial boiling point and boiling ra	
· Flash point:	> SADT
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	+10 °C (SADT)
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	0.962 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· water:	Undetermined.
· Partition coefficient: n-octanol/wa	ter: not determined
· Viscosity:	
Dynamic:	Not determined.
· Kinematic:	Not determined.
9.2 Other information	No further relevant information available.
· Active oxygen	3.8 - 4.0 %

SECTION 10: Stability and reactivity

· 10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No further relevant information available.

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.

Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. · 10.5 Incompatible materials:

heavy-metal compounds and amines).

· 10.6 Hazardous decomposition

· Additional information:

products:

Hydrocarbons, carbondioxide and -monoxid.

No hazardous decomposition products if used and stored according to specifications.

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 toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

26748-47-0 1-methyl-1-phenylethyl peroxyneodecanoate

LD50 5,126 mg/kg (rattus)

Dermal LD50 >7,940 mg/kg (cuniculosus)

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93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

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Oral LD50 >5,000 mg/kg (rattus)

· Primary irritant effect:

• 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.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 STOT-repeated exposure
 Aspiration hazard
 Based on available data, the classification criteria are not met.
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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated

EC50 / 48h | >0.04 mg/l (daphnia) IC50 / 72h | >0.04 mg/l (alga)

12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

Additional ecological information:

• General notes: Water hazard class 2 (German Regulation) (Self-assessment): 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.

· 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 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

· ADR, IMDG UN3115

· 14.2 UN proper shipping name

· ADR
UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE
CONTROLLED (CUMYLPEROXYNEODECANOATE)
· IMDG
ORGANIC PEROXIDE TYPE D LIQUID TEMPERATURE

DG ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED (CUMYLPEROXYNEODECANOATE)

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(Contd. of page 6) · 14.3 Transport hazard class(es) · ADR 5.2 (P2) Organic peroxides. · Label · IMDG Class 5.2 Organic peroxides. · Label 5.2 · IATA Χ · Class · Label Χ · 14.4 Packing group · ADR, IMDG Void · 14.5 Environmental hazards: Marine pollutant: No · 14.6 Special precautions for user Warning: Organic peroxides. · Hazard identification number (Kemler code): Stowage Category · Stowage Code SW1 Protected from sources of heat. SW3 Shall be transported under temperature control. · Segregation Code SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis. · 14.7 Transport in bulk according to Annex II of Marpol and the **IBC Code** Not applicable. · Transport/Additional information: · Limited quantities (LQ) Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity Transport category · Tunnel restriction code · RID / GGVSEB: no admission · IMDG · Limited quantities (LQ) Excepted quantities (EQ) Code: E0 Not permitted as Excepted Quantity · IATA · Remarks: no admission · Control temperature: -10 °C 0°C · Emergency temperature:

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- Qualifying quantity (tonnes) for the application of lower-tier requirements

Qualifying quantity (tonnes) for

the application of upper-tier requirements

REGULATION (EC) No

1907/2006 ANNEX XVII

Conditions of restriction: 3

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· National regulations:

· Other regulations, limitations and prohibitive regulations

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

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 H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

Environment protection / Security of labour Department issuing SDS:

Tel: +49 2871 9902-0 Contact:

E-mail: mail@pergan.com

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IMDIG: International Maritime Lode for Dangerous Goods
IATA: International Mir 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 Concentration (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PNEC: Predicted No-Effect Concentration (REAI 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 Org. Perox. D: Organic peroxides – Type C/D

Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4

·* Data compared to the previous version altered.

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