

Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

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

· 1.1 Product identifier

PEROXAN PND-75 · 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

Environment protection / Security of labour from:

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

Flam. Liq. 3 H226 Flammable liquid and vapour. Org. Perox. D H242 Heating may cause a fire. Skin Irrit 2 H315 Causes skin irritation.

Skin Sens 1 H317 May cause an allergic skin reaction.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

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

· Hazard pictograms









GHS02 GHS07 GHS08 GHS09

· Signal word Danger

· Hazard-determining

components of labelling:

tert-butyl peroxyneodecanoate

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

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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.

P243 Take action to prevent static discharges. P264 Wash thoroughly after handling. P273 Avoid release to the environment.

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 for showerl.

P362+P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up P410 Protect from sunlight.

Store at temperatures not exceeding 0°C. Keep cool. P411+P235

P420 Store separately.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

(Contd. on page 2)



Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

Trade name: PEROXAN PND-75

(Contd. of page 1) · 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: 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:			
Γ	CAS: 26748-41-4	tert-butyl peroxyneodecanoate	70-80%
	EINECS: 247-955-1	Org. Perox. D, H242; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	
	Reg-No.: 01-2119948628-22		
	CAS: 93685-81-5	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated	20-25%
	EINECS: 297-629-8	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:

Take care of personal protection for the first aider.

· After inhalation: Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

Take affected persons into fresh air and keep quiet.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

Immediately remove contaminated clothing.

No further relevant information available

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

medical attention and special

treatment needed No further relevant information available.

## **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

· Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents:

Water with full jet

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: Do not inhale explosion gases or combustion gases. Additional information 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: Inform respective authorities in case of seepage into water course or sewage system.

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 section 13.

(Contd. on page 3)



(Contd. of page 2)

Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

Trade name: PEROXAN PND-75

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

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 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.

Ensure good ventilation/exhaustion at the workplace.

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.

Use only in well ventilated areas.

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). Avoid contact with skin and eyes. 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

Requirements to be met by

· Storage:

Pay attention to the special requirements of your local autorithies for storing dangerous goods.

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.: -10 °C

Control temperature:

0°C

(Contd. on page 4)



Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

Trade name: PEROXAN PND-75

(Contd. of page 3)

+10 °C **Emergency temperature:** 

· 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

26748-41-4 tert-butyl peroxyneodecanoate

DNEL Longterm System 8 mg/kg bw/day (Worker) Inhalative DNEL Longterm System 2.8 mg/m3 (Worker)

·PNECs

26748-41-4 tert-butyl peroxyneodecanoate

PNEC Marinewater sed | 0.219 mg/kg sed dw (-) 0.005 mg/l (AF 10) **PNEC Freshwater** PNEC Freshwater sed 2.19 mg/kg sed dw (-) 0.434 mg/kg soil dw (-) PNEC Soil PNEC STP 96.69 mg/l (AF 10) **PNEC Marinewater** 0 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.

· 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. 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: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer

exposure use self-contained respiratory protective device.

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

· 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

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

(Contd. on page 5)

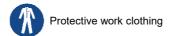


Version: 7 (replaces version 6) Printing date 03.04.2024 Revision: 16.02.2023

Trade name: PEROXAN PND-75

(Contd. of page 4)

· Body protection:



SECTION 9: Ph	ysical and che	mical properties
---------------	----------------	------------------

SECTION 9: Physical and chemical properties	
9.1 Information on basic physical and chemical properties	
General Information	
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not applicable.
<ul> <li>Boiling point or initial boiling point and boiling range</li> </ul>	Not applicable.
Flammability	Not applicable.
Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined. > SADT
· Flash point: · Decomposition temperature:	+20 °C (SADT)
· pH	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:	0.87 g/cm <sup>3</sup>
Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
Important information on protection of health and environment	nt,
and on safety.	
and on safety. Ignition temperature:	Product is not selfigniting.
and on safety.	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
and on safety. Ignition temperature: Explosive properties:	Product is not selfigniting.
and on safety. Ignition temperature: Explosive properties: Change in condition	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Void Void Voi
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Void Flammable liquid and vapour.
and on safety. Ignition temperature: Explosive properties: Change in condition Evaporation rate Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Void Flammable liquid and vapour. Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Void Flammable liquid and vapour. Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids Oxidising solids	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising solids Oxidising solids Oxidising solids Organic peroxides	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising liquids Oxidising solids Organic peroxides Corrosive to metals Desensitised explosives	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void
and on safety. Ignition temperature: Explosive properties:  Change in condition Evaporation rate  Information with regard to physical hazard classes Explosives Flammable gases Aerosols Oxidising gases Gases under pressure Flammable liquids Flammable solids Self-reactive substances and mixtures Pyrophoric liquids Pyrophoric solids Self-heating substances and mixtures Substances and mixtures Substances and mixtures Substances and mixtures Oxidising solids Oxidising solids Oxidising solids Organic peroxides Corrosive to metals	Product is not selfigniting. Product is not explosive. However, formation of explosive air/vapour mixtures are possible.  Not determined.  Void Void Void Void Void Flammable liquid and vapour. Void Void Void Void Void Void Void Void



Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

# Trade name: PEROXAN PND-75

(Contd. of page 5)

#### **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 · 10.5 Incompatible materials:

· Additional information:

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.

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.

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

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

#### · LD/LC50 values relevant for classification:

#### 26748-41-4 tert-butyl peroxyneodecanoate

Oral	LD50	10,776 mg/kg (rattus)
Dermal	LD50	>6,000 mg/kg (rabbit)
Inhalative	LC50 / 4h	37.5 mg/l (rattus)

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

LD50 >5,000 mg/kg (rattus)

Skin corrosion/irritation

Serious eye damage/irritation

Causes skin irritation. Based on available data, the classification criteria are not met.

Respiratory or skin

sensitisation

May cause an allergic skin reaction.

Based on available data, the classification criteria are not met. Germ cell mutagenicity · 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 May be fatal if swallowed and enters airways.

11.2 Information on other hazards

#### Endocrine disrupting properties

None of the ingredients is listed.

## **SECTION 12: Ecological information**

#### · 12.1 Toxicity

· Aquatic toxicity:

## 26748-41-4 tert-butyl peroxyneodecanoate

LC50 / 96h | 0.33 mg/l (brachydanio rerio)

EC50 / 48h | 0.79 mg/l (daphnia)

## 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 (algae)

(Contd. on page 7)



Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

# Trade name: PEROXAN PND-75

· 12.2 Persistence and degradability

(Contd. of page 6)

· Degree of elimination:

· Classification:

26748-41-4 tert-butyl peroxyneodecanoate

Degradation (Readily biodegradable) (OECD 301 D)

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

Degradation (Not readily biodegradable)

12.3 Bioaccumulative potential

· Partition coefficient: nOctanol/water: [Log Kow]

26748-41-4 tert-butyl peroxyneodecanoate

5,0 (25°C)

12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment

· PBT: 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.

· 12.6 Endocrine disrupting

The product does not contain substances with endocrine disrupting properties. properties No further relevant information available.

12.7 Other adverse effects · Remark: Harmful to fish

· Additional ecological information:

Harmful to aquatic organisms 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.

#### **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

· 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 UN3115

· 14.2 UN proper shipping name

· ADR UN3115 ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE

CONTROLLED (tert-BUTYL PEROXYNEODECANOATE),

**ENVIRONMENTALLY HAZARDOUS** 

ORGANIC PEROXIDE TYPE D, LIQUID, TEMPERATURE CONTROLLED

(tert-BUTYL PEROXYNEODECANOATE), MARINE POLLUTANT

· 14.3 Transport hazard class(es)

· ADR

· IMDG





Class 5.2 (P2) Organic peroxides. Label 5.2

· IMDG





Class 5.2 Organic peroxides. · Label 52

(Contd. on page 8)



Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

# Trade name: PEROXAN PND-75

(Contd. of page 7)

	(Conta. or page
· IATA	
· Class	χ
· Label	X
· 14.4 Packing group	
ADR, IMDG	Void
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: tert-BUTYL
14.0 Environmental nazardo.	PEROXYNEODECANOATE
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
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.
	SW3 Shall be transported under temperature control.
· Segregation Code	SG35 Stow "separated from" SGG1-acids
	SG36 Stow "separated from" SGG18-alkalis.
· 14.7 Maritime transport in bulk according to IMO instr	ruments Not applicable.
· Transport/Additional information:	
·ADR	
· Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· Transport category	1
· Tunnel restriction code	D
· RID / GGVSEB:	no admission
·IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
· IATA	
Remarks:	no admission
· Control temperature:	0 °C
· Emergency temperature:	+10 °C

## **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.

(Contd. on page 9)



Printing date 03.04.2024 Version: 7 (replaces version 6) Revision: 16.02.2023

Trade name: PEROXAN PND-75

(Contd. of page 8)

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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

None of the ingredients is listed.

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

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 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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects. H413 May cause long lasting harmful effects to aquatic life.

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)

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 Flam. Liq. 3: Flammable liquids – Category 3 Org. Perox. D: Organic peroxides – Type C/D Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Asp. Tox. 1: Aspiration hazard - Category

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

·\* Data compared to the previous version altered.

GB