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

· 1.1 Product identifier

PEROXAN HXY-45 P · 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

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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to

Regulation (EC) No 1272/2008

Hazard pictograms

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

· Signal word

Danger

· Hazard-determining

components of labelling: di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide

**Hazard statements** 

H242 Heating may cause a fire. H411 Toxic to aquatic life with long lasting effects.

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

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+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

Results of PBT and vPvB assessment

PBT: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. · vPvR· The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

· Determination of endocrine-

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

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

· 3 2 Mixtures

<ul> <li>Dangerous components:</li> </ul>		
CAS: 1068-27-5	di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide	40-50%
EINECS: 213-944-5	Org. Perox. C, H242; Aquatic Chronic 2, H411	
Reg-No : 01-2120752828-41	· · · · · · · · · · · · · · · · · · ·	

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· 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: 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 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.

 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: 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:

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

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 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).

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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.

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 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 quality):

+10 .... +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:

monitored at the workplace.

The product does not contain any relevant quantities of materials with critical values that have to be

· DNELs

1068-27-5 di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide

DNEL Longterm System 15 mg/kg bw/day (Worker) Dermal Inhalative DNEL Longterm System 10,58 mg/m3 (Worker)

1068-27-5 di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide

PNEC Marinewater sed 2,534 mg/kg sed dw (-)

0,022 mg/l (-) PNEC Freshwater

25,344 mg/kg sed dw (-) PNEC Freshwater sed PNEC Soil 3,568 mg/kg soil dw (-) PNEC STP 100 mg/l (AF 10) **PNEC Marinewater** 0,002 mg/l (-)

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.

Immediately remove all soiled and contaminated clothing

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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.

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

· 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:

· Odour threshold:

Melting point/freezing point:

Boiling point or initial boiling point and boiling range

· Flammability

Lower and upper explosion limit

· Lower:

· Upper:

· Flash point:

· Decomposition temperature:

· pH

Viscosity:

· Kinematic viscosity

· Dynamic:

Solubility

· water:

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

Vapour pressure:

· Density and/or relative density

Density:

· Relative density

Vapour density

· Particle characteristics

white - yellowish

Characteristic Not determined.

Not applicable.

Not applicable.

May cause fire.

Not determined. Not determined.

Not applicable.

> +80 °C (SADT)

Not applicable.

Not applicable. Not applicable.

Undetermined.

not determined

Not applicable.

Not determined. Not determined.

Not applicable.

See section 3.

9.2 Other information

Appearance:

· Form: Powder

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Other safety characteristics	Desensitised explosives	
	•	• • • •
		48-53%

# **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

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

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#### · 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

· 12.1 Toxicity

· Aquatic toxicity:

1068-27-5 di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide

EC50 6,17 mg/l (algae)

- 12.2 Persistence and degradability
- · Degree of elimination:
- · Classification:

1068-27-5 di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide

Degradation (Not readily biodegradable) (OECD 301 D)

· 12.3 Bioaccumulative potential

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

1068-27-5 di-tert-butyl 1,1,4,4-tetramethylbut-2-yn-1,4-ylene diperoxide 6,71 8042-47-5 White mineral oil, petroleum > 3,5

The product does not contain substances with endocrine disrupting properties.

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 REACH, annex XIII.
 vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

· 12.6 Endocrine disrupting

properties
12.7 Other adverse effects

· Additional ecological information:

General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage

system.

# **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

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**

J3106
I3106 ORGANIC PEROXIDE TYPE D, SOLID (2,5-DIMETHYL-2,5-DI- rt-BUTYLPEROXY) HEXYNE-3), ENVIRONMENTALLY HAZARDOUS
RGANIC PEROXIDE TYPE D, SOLID (2,5-DIMETHYL-2,5-DI-(tert- ITYLPEROXY) HEXYNE-3), MARINE POLLUTANT
RGANIC PERÓXIDE TYPE D, SOLID (2,5-DIMETHYL-2,5-DI-(tert- ITYLPEROXY) HEXYNE-3)
1: 2

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· 14.3 Transport hazard class(es)

· ADR





Class 5.2 (P1) Organic peroxides. · Label

· IMDG





Class 5.2 Organic peroxides. · Label 5.2

· IATA



Class 5.2 Organic peroxides. Label 5.2

· 14.4 Packing group

· ADR, IMDG, IATA

Void

D

· 14.5 Environmental hazards:

· Marine pollutant:

Symbol (fish and tree) Symbol (fish and tree) · Special marking (ADR):

Warning: Organic peroxides.

· 14.6 Special precautions for user

Hazard identification number (Kemler code):

· Stowage Category

· 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 instruments Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ) 500 g Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity Transport category

Tunnel restriction code

· RID / GGVSEB: like ADR

· IMDG

500 g · Limited quantities (LQ) 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 None of the ingredients is listed.

P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES · Seveso category

E2 Hazardous to the Aquatic Environment

Qualifying quantity (tonnes) for the application of lower-tier requirements

50 t

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· 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

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· 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.

## **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

Tel: +49 2871 9902-0 Contact: E-mail: mail@pergan.com

Version number of previous

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

INDICS. International Maritime Code in Dangerous Goos
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 (REACH)
PNEC: Predicted No-Effect Concentration (REACH) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Org. Perox. C: Organic peroxides – Type C/D Org. Perox. D: Organic peroxides – Type C/D

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

· \* Data compared to the previous version altered.

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