

Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

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

· 1.1 Product identifier

• Trade name: PEROXAN A-40 L

· 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:

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.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Repr. 2 H361d Suspected of damaging the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

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



Danger

Signal word

· Hazard-determining

nazaru-ueteriiiiiiig

· Hazard statements

components of labelling:

4-hydroxy-4-methylpentan-2-one
2,4-Pentadione, peroxide
H242 Heating may cause a fire.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child. H335 May cause respiratory irritation.

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. P264 Wash thoroughly after handling.

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

protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding +25°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.

vPvB: 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.

- IE -



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

# Trade name: PEROXAN A-40 L

(Contd. of page 1)

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

#### · 3.2 Mixtures

Dangerous components:		
CAS: 123-42-2 EINECS: 204-626-7 Index number: 603-016-00-1 Reg-No.: 01-2119473975-21	4-hydroxy-4-methylpentan-2-one Flam. Liq. 3, H226; Repr. 2, H361d; Eye Irrit. 2, H319; STOT SE 3, H335 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 10 %	50-60%
CAS: 13784-51-5 EINECS: 237-438-9 Reg-No.: 01-2119965139-28	2,4-Pentadione, peroxide Alternative CAS number: 37187-22-7 Org. Perox. D, H242; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-40%
CAS: 123-54-6 EINECS: 204-634-0 Index number: 606-029-00-0 Reg-No.: 01-2119458968-15	pentane-2,4-dione Flam. Liq. 3, H226; Acute Tox. 3, H311; Acute Tox. 3, H331; Acute Tox. 4, H302	1-5%
EINECS: 231-765-0 Index number: 008-003-00-9	hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H335; Aquatic Chronic 3, H412 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 70$ % Skin Corr. 1B; H314: $50$ % $\le C < 70$ % Skin Irrit. 2; H315: $35$ % $\le C < 50$ % Eye Dam. 1; H318: $C \ge 8$ % Eye Irrit. 2; H319: $5$ % $\le C < 8$ % STOT SE 3; $C \ge 35$ % Ox. Liq. 1; H271: $C \ge 70$ % Ox. Liq. 2; H272: $50$ % $\le C < 70$ %	1-5%
· 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.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from

the substance or mixture Under certain fire conditions, traces of other toxic gases cannot be excluded.

No further relevant information available.

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.

(Contd. on page 3)



(Contd. of page 2)

Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

Trade name: PEROXAN A-40 L

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.

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 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.

Avoid shock and friction.



Do not smoke.

Information about fire - and explosion protection:

Protect from heat.

Prevent impact and friction.

Fumes can combine with air to form an explosive mixture.



Wear shoes with conductive soles.



Avoid open flames, sparks, direct sunlight and other sources of ignition.

· 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.

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:

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

Protect from contamination.

Recommended storage temperature (To maintain quality):

+5 .... +25 °C

Storage class: 5.2

7.3 Specific end use(s) No further relevant information available

- IE -



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

Trade name: PEROXAN A-40 L

(Contd. of page 3)

## **SECTION 8: Exposure controls/personal protection**

## · 8.1 Control parameters

· 8.1 Control parameter	rs
· Ingredients with limit	t values that require monitoring at the workplace:
123-42-2 4-hydroxy-4-	methylpentan-2-one
OEL (Ireland) Lo	ong-term value: 240 mg/m³, 50 ppm
WEL (Great Britain) Sh	hort-term value: 362 mg/m³, 75 ppm
Lo	ong-term value: 241 mg/m³, 50 ppm
123-54-6 pentane-2,4-	dione
OEL (Ireland)	ong-term value: 25 ppm
7722-84-1 hydrogen p	eroxide solution
	hort-term value: 3 mg/m³, 2 ppm
	ong-term value: 1,5 mg/m³, 1 ppm
	hort-term value: 2,8 mg/m³, 2 ppm
Lo	ong-term value: 1,4 mg/m³, 1 ppm
· DNELs	
123-42-2 4-hydroxy-4-	methylpentan-2-one
Dermal DNEL Longt	erm System 467 mg/kg bw/day (Worker)
Inhalative DNEL Longt	term System 32,6 mg/m3 (Worker)
13784-51-5 2,4-Pentad	
Dermal DNEL Longt	erm System 5 mg/kg bw/day (Worker)
Inhalative DNEL Longt	term System 4,41 mg/m3 (Worker)
123-54-6 pentane-2,4-	dione
Dermal DNEL Longt	erm System 12 mg/kg bw/day (Worker)
Inhalative DNEL Longt	term System 84 mg/m3 (Worker)
7722-84-1 hydrogen p	eroxide solution
Inhalative DNEL Longt	term Local 1,4 mg/m3 (Worker)
PNECs	
123-42-2 4-hydroxy-4-	methylpentan-2-one
PNEC Marinewater sec	<u> </u>
PNEC Freshwater	2 mg/l (AF 50)
PNEC Freshwater sed	
PNEC Soil	0,31 mg/kg soil dw
PNEC STP	100 mg/l (AF 10)
PNEC Marinewater	0,2 mg/l (AF 500)
13784-51-5 2,4-Pentad	
	1 0,153 mg/kg sed dw (-)
PNEC Freshwater	0,17 mg/l (AF 10)
PNEC Freshwater sed	
PNEC Soil	0,2 mg/kg soil dw (-)
PNEC STP	6,2 mg/l (AF 10)
PNEC Marinewater	0,017 mg/l (AF 100)
123-54-6 pentane-2,4-	
PNEC Marinewater sec	
PNEC Freshwater	0,2 mg/l (AF 50)
PNEC Freshwater sed	1,909 mg/kg sed dw
PNEC Soil	0,193 mg/kg soil dw (-)
PNEC STP	1,32 mg/l (AF 10)
PNEC Marinewater	0,02 mg/l (AF 500)
7722-84-1 hydrogen p	
PNEC Marinewater sec	
PNEC Freshwater	0,013 mg/l (AF 50)
PNEC Freshwater sed	0,047 mg/kg sed dw
PNEC Soil	0,002 mg/kg soil dw
PNEC STP	4,66 mg/l (AF 100)
PNEC Marinewater	0,013 mg/l (AF 50)
. INCO Manifestate	0,0 to mg/r (vii 00)

Additional information:

The lists valid during the making were used as basis.



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

Trade name: PEROXAN A-40 L

(Contd. of page 4)

· 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.

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

exposure use self-contained respiratory protective device.

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



Filter A2

· 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

· Physical state

· 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:

pН

Viscosity:

Kinematic viscosity Dynamic at 20 °C:

Solubility water:

Partition coefficient n-octanol/water (log value)

Not determined. 12 - 49 mPas Undetermined.

Not determined.

Fluid

Colourless

Characteristic

Not applicable.

Not applicable.

May cause fire.

Not determined.

Not determined.

> SADT +60 °C (SADT)

Not determined.

not determined Not determined.

· Vapour pressure:

Not determined

(Contd. on page 6)



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

# Trade name: PEROXAN A-40 L

(Contd. of page 5)

<ul> <li>Density</li> </ul>	and/or	relative	density
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 Density at 20 °C: 1,03 g/cm3 Relative density Not determined. · Vapour density Not determined.

#### 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and environment,

and on safety.

Ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour

Void

mixtures are possible.

· Change in condition

Evaporation rate Not determined.

· Information with regard to physical hazard classes · Explosives

Flammable gases Void · Aerosols Void Oxidising gases Void · Gases under pressure Void Flammable liquids

Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void Void

Self-heating substances and mixtures · 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 4,0 - 4,4 %

### **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

Self-accelerating decomposition at SADT.

· 10.4 Conditions to avoid

No further relevant information available.

· 10.5 Incompatible materials:

Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g.

heavy-metal compounds and amines).

· 10.6 Hazardous decomposition

products:

Hydrocarbons, carbondioxide and -monoxid.

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

 Additional information: Emergency procedures will vary depending on conditions. The customer should have an emergency

response plane in place.

### **SECTION 11: Toxicological information**

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

(Contd. on page 7)



(Contd. of page 6)

Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

# Trade name: PEROXAN A-40 L

		(Contd. or page o)
· LD/LC50	values re	levant for classification:
123-42-2	I-hydroxy-	4-methylpentan-2-one
Oral	LD50	3.002 mg/kg (rattus)
13784-51-	5 2,4-Penta	adione, peroxide
Oral	LD50	>2.000 mg/kg (rattus)
123-54-6	entane-2,	4-dione
Oral	LD50	575 mg/kg (rattus)
Dermal	LD50	790 mg/kg (rattus)
Inhalative	LC50 / 4h	5,1 mg/l (rattus)

Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin

**sensitisation** May cause an allergic skin reaction.

**Germ cell mutagenicity Carcinogenicity**Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

Reproductive toxicity
 Suspected of damaging the unborn child.

· STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure
Aspiration hazard
Based on available data, the classification criteria are not met.
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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

### · 12.1 Toxicity

Aquatic	toxicity:	

# 13784-51-5 2,4-Pentadione, peroxide

EC50 / 72h | 5,4 mg/l (alga (Süsswasser))

LC50 / 96h 67,7 mg/l (piscis)

EC50 / 48h 7,1 mg/l (daphnia magna)

### 123-54-6 pentane-2,4-dione

LC50 / 96h | 72 mg/l (oncorhynchus mykiss)

EC50 / 48h 75 mg/l (daphnia magna)

### 12.2 Persistence and degradability

· Degree of elimination:

### · Classification:

### 123-42-2 4-hydroxy-4-methylpentan-2-one

Degradation (Readily biodegradable) (OECD 301 A)

## 13784-51-5 2,4-Pentadione, peroxide

Degradation (Readily biodegradable) (OECD 301 D)

### 123-54-6 pentane-2,4-dione

Degradation (Readily biodegradable) (OECD 301 C)

### 7722-84-1 hydrogen peroxide solution

Degradation (Readily biodegradable)

## 12.3 Bioaccumulative potential

· Partition	coefficient: nOctanol/water: [Log Kow]	
123-42-2	4-hydroxy-4-methylpentan-2-one	-0,09 (20°C)
13784-51-5	2,4-Pentadione, peroxide	1,1 (20°C)
123-54-6	pentane-2,4-dione	0,68 (20°C)
7722-84-1	hydrogen peroxide solution	-1,57 (20°C)
102-82-9	tributylamine	3,34 (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 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** The product does not contain substances with endocrine disrupting properties.

(Contd. on page 8)



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

# Trade name: PEROXAN A-40 L

(Contd. of page 7)

- · 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 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.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3105
· 14.2 UN proper shipping name · ADR	UN3105 ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE PEROXIDE)
· IMDG, IATA	ORGANIC PEROXIDE TYPE D, LIQUID (ACETYL ACETONE PEROXIDE)
· 14 3 Transport hazard class(es)	

- 14.3 Transport hazard class(es)
- · ADR



· Class	5.2 (P1) Organic peroxides.
· I ahel	5.2

· IMDG, IATA



· Class

Labei	5.2	
· 14.4 Packing group		
· ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards:	Not applicable.	
· 14.6 Special precautions for user	Warning: Organic peroxides.	
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.	
	SG72 See 7.2.6.3.2.	

5.2 Organic peroxides.

- · 14.7 Maritime transport in bulk according to IMO instruments Not applicable.
- · Transport/Additional information:

· ADR

· Limited quantities (LQ) 125 ml · Excepted quantities (EQ) Code: E0

Not permitted as Excepted Quantity
Transport category 2
Tunnel restriction code D

· RID / GGVSEB: like ADR

(Contd. on page 9)



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

Trade name: PEROXAN A-40 L

(Contd. of page 8)

· Limited quantities (LQ) · Excepted quantities (EQ)

125 ml 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.

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

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

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

200 t requirements

**REGULATION (EC) No** 

1907/2006 ANNEX XVII Conditions of restriction: 3

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

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

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· 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.

· Relevant phrases H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H271 May cause fire or explosion; strong oxidiser.

May intensify fire; oxidiser. H272 H302 Harmful if swallowed. H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

Causes skin irritation. H315

H317 May cause an allergic skin reaction. Causes serious eye damage. H318 Causes serious eye irritation. H319

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child. H412 Harmful to aquatic life with long lasting effects.

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

· Version number of previous

version:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) · Abbreviations and acronyms:

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)

(Contd. on page 10)



Printing date 02.01.2024 Version: 10 (replaces version 9) Revision: 15.12.2023

Trade name: PEROXAN A-40 L

(Contd. of page 9)

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
vPvB: very Persistent and very Bioaccumulative
Flam. Liq, 3: Flammable liquids – Category 3
Ox. Liq, 1: Oxidizing liquids – Category 1
Org. Perox. D: Organic peroxides – Type C/D
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

·\* Data compared to the previous version altered.