



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

- 1.1 Product identifier
 - Trade name: **PEROXAN PO-9 C (gesperrt: \\nas02\chemges2nas\Versionen\GEGHS20250704TXIB)**
- UFI: G9Y6-40F1-600Q-4T1Y
- 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
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Repr. 1B H360FD May damage fertility. May damage the unborn child.
 - Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
 - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008
 - Hazard pictograms
 -  
 - GHS07 GHS08
 - Signal word
 - Danger
 - Hazard-determining components of labelling:
 - Distillates (petroleum), hydrotreated heavy paraffinic
 - tert-butyl 2-ethylperoxyhexanoate
 - Hazard statements
 - H317 May cause an allergic skin reaction.
 - H360FD May damage fertility. May damage the unborn child.
 - H304 May be fatal if swallowed and enters airways.
 - H412 Harmful to aquatic life with long lasting effects.
 - Precautionary statements
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P272 Contaminated work clothing should not be allowed out of the workplace.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
 - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 - P331 Do NOT induce vomiting.
 - P308+P313 IF exposed or concerned: Get medical advice/attention.
 - P362+P364 Take off contaminated clothing and wash it before reuse.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Restricted to professional users.
- Additional information:
 - 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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:

CAS: 64742-54-7 EINECS: 265-157-1 Index number: 649-467-00-8 Reg-No.: 01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic Asp. Tox. 1, H304	80-90%
CAS: 3006-82-4 EINECS: 221-110-7 Index number: 617-024-00-8 Reg-No.: 01-2119498310-40	tert-butyl 2-ethylperoxyhexanoate Repr. 1B, H360FD; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411; Skin Sens. 1, H317	5-10%

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.

Involve doctor immediately.

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.

After skin contact:

Take affected persons into fresh air and keep quiet.
Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Immediately remove contaminated clothing.

After swallowing:

Rinse opened eye for several minutes under running water.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment

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.
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.

5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.

Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.
Self-protection first!

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.
Avoid contact with the eyes and skin

6.2 Environmental precautions:

Wear protective equipment. Keep unprotected persons away.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.



Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

6.4 Reference to other sections

Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.

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.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
 - Keep receptacles tightly sealed.
 - 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.
 - Use only in well ventilated areas.
 - Before break and at the end of work hands should be thoroughly washed.
 - Avoid contact with skin and eyes.
 - While using do not eat, drink or smoke.
 - Avoid shock and friction.
 - Vapours can form an explosive atmosphere with air.
 - Proper disposal of contaminated rags or cleaning utensils to prevent fire.
- **Information about fire - and explosion protection:**
 - Prevent impact and friction.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - Pay attention to the special requirements of your local authorities for storing dangerous goods.
- **Storage:**
 - Prevent any seepage into the ground.
 - Use only receptacles specifically permitted for this substance/product.
- **Requirements to be met by storerooms and receptacles:**
- **Information about storage in one common storage facility:**
 - Store away from foodstuffs, drinks and feeding stuffs.
- **Further information about storage conditions:**
 - Protect from heat and direct sunlight.
 - Protect from contamination.
 - Storage in a collecting room is required.
- **Maximum storage temperature:** +15 °C
- **Minimum storage temperature:** -10 °C
- **Storage class:** 6.1 C
- **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		
64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic		
Dermal	DNEL Longterm System	0,97 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	2,73 mg/m ³ (Worker)
	DNEL Longterm Local	5,58 mg/m ³ (Worker)
3006-82-4 tert-butyl 2-ethylperoxyhexanoate		
Dermal	DNEL Longterm System	5,6 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	9,8 mg/m ³ (Worker)
· PNECs		
3006-82-4 tert-butyl 2-ethylperoxyhexanoate		
PNEC Marinewater sediment		0,062 mg/kg sed dw
PNEC Freshwater		0,002 mg/l (AF 50)
PNEC Freshwater sediment		0,622 mg/kg sed dw
PNEC Sewage treatment plant		0,64 mg/l (AF 100)
PNEC Marinewater		0 mg/l (AF 500)





- **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.

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<ul style="list-style-type: none"> · Respiratory protection: · Hand protection · Material of gloves · Penetration time of glove material · Eye/face protection · Body protection: 	<p>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 exposure use self-contained respiratory protective device.</p> <p> Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated. Filter A2</p> <p> 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</p> <p>Protective 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</p> <p>The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> <p> Tightly sealed goggles</p> <p> Protective work clothing</p>
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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

<ul style="list-style-type: none"> · 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: · pH · Viscosity: · Kinematic viscosity · Dynamic at 20 °C: · Solubility · water: · Partition coefficient n-octanol/water (log value) · Vapour pressure: · Density and/or relative density · Density at 20 °C: · Relative density · Vapour density 	<p>Liquid Colourless Characteristic Not determined Not applicable Not applicable May cause fire. Not determined Not determined > SADT > 35 °C (SADT) Not determined Not determined 34 mPas Undetermined not determined Not determined Not determined 0,843 g/cm³ Not determined Not determined</p>
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· 9.2 Other information

<ul style="list-style-type: none"> · Appearance: · Form: · Important information on protection of health and environment, and on safety. · Ignition temperature: · Explosive properties: · Change in condition · Evaporation rate · Information with regard to physical hazard classes 	<p>Fluid Product is not selfigniting. Product does not present an explosion hazard. Not determined Void</p>
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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
Oxidising agent
- **10.6 Hazardous decomposition products:** Fire and decomposition may produce irritating, corrosive, flammable, harmful or toxic gases and vapours.
- **Additional information:** Emergency procedures will vary depending on conditions. The customer should have an emergency response plan in place.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

Oral	LD50	5.000 mg/kg (Rat)
Dermal	LD50	5.000 mg/kg (rabbit)
Inhalative	LC50 / 4h	>5 mg/l (Rat)

3006-82-4 tert-butyl 2-ethylperoxyhexanoate

Oral	LD50	>10.000 mg/kg (Rat)
Dermal	LD50	14.142-20.000 mg/kg (rabbit)
Inhalative	LC50 / 4h	42,2 mg/l (Rat)

- **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** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage fertility. May damage the unborn child.
- **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:**

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

NOEC fish	>1 mg/l (Fish)
NOEC daphnia	>1 mg/l (Daphnia)
LL/EL/IL50	>100 mg/l (algae)
	>100 mg/l (Daphnia)
	>100 mg/l (Fish)

3006-82-4 tert-butyl 2-ethylperoxyhexanoate

EC50 / 72h	0,44 mg/l (alga (Süßwasser))
LC50 / 96h	8,66 mg/l (poecilia reticulata)
EC50 / 48h	7,5 mg/l (Daphnia)
NOEC [96h]	2,1 mg/l (Fish)
NOEC [72h]	0,018 mg/l (algae)

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· **12.2 Persistence and degradability**

· Degree of elimination:

· Classification:

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic

Degradation | (Not readily biodegradable)

3006-82-4 tert-butyl 2-ethylperoxyhexanoate

Degradation | (Readily biodegradable) (OECD 301 D)

· **12.3 Bioaccumulative potential**

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

64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	10,16 - 24,9 (20°C)
3006-82-4	tert-butyl 2-ethylperoxyhexanoate	4,79 (20°C)
75-65-0	2-methylpropan-2-ol	0,32 (20°C)
75-91-2	tert-butyl hydroperoxide	0,85 (30 °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.

· **12.7 Other adverse effects**

· **Remark:** Toxic for fish

· **Additional ecological information:**

· **General notes:** Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**



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.

· **Recommended cleansing agents:**

Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

Void

· **14.2 UN proper shipping name**

· **ADR, IMDG, IATA**

Void

· **14.3 Transport hazard class(es)**

· **ADR, IMDG, IATA**

· **Class**

Void

· **14.4 Packing group**

· **ADR, IMDG, IATA**

Void

· **14.5 Environmental hazards:**

Not applicable

· **14.6 Special precautions for user**

Not applicable

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable

· **Transport/Additional information:**

· **ADR**

· **RID / GGVSEB:**

no admission

· **IATA**

· **Remarks:**

no admission

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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.
- 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 II**

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.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Contact:** Tel: +49 2871 9902-0
E-mail: mail@pergan.com
- **Version number of previous version:** 3
- **Abbreviations and acronyms:**
 - 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 (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
 - Skin Sens. 1: Skin sensitisation – Category 1
 - Repr. 1B: Reproductive toxicity – Category 1B
 - Asp. Tox. 1: Aspiration hazard – Category 1
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3