

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

- **1.1 Product identifier**
- **Trade name:** PEROXAN BIC
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture**  
Reaction initiator  
For industrial use
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** PERGAN GmbH  
Hilfsstoffe für industrielle Prozesse  
Schlavenhorst 71  
D-46395 Bocholt  
Tel: +49 2871 9902-0  
Fax: +49 2871 9902-50
- **Further information obtainable from:** Environment protection / Security of labour  
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. C    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 Acute 1   H400 Very toxic to aquatic life.
  - 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 CLP regulation.
- **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09
- **Signal word** Danger
- **Hazard-determining components of labelling:** O,O-tert-butyl isopropyl monoperoxycarbonate  
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 smoking.
  - P234      Keep only in original packaging.
  - P243      Take action to prevent static discharges.
  - P264      Wash thoroughly after handling.
  - 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.
  - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
  - P405      Store locked up.
  - 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.

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- **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.

### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

##### · Dangerous components:

CAS: 2372-21-6 EINECS: 219-143-7 Reg-No.: 01-2120763800-56	O,O-tert-butyl isopropyl monoperoxycarbonate Org. Perox. C, H242; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	70-80%
CAS: 93685-81-5 EINECS: 297-629-8 Reg-No.: 01-2119490725-29	Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated Alternative CAS number: 13475-82-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	20-25%
· <b>Additional information:</b> 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.

##### · After swallowing:

If symptoms persist consult doctor.

#### · 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

No further relevant information available.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

· **Suitable extinguishing agents:** CO<sub>2</sub>, 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, carbon dioxide 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

Remove persons from danger area.  
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.  
Ensure adequate ventilation.

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**Safety data sheet**  
 according to Regulation (EC) No 1907/2006, Article 31

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Version: 6 (replaces version 5)

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Large quantities should be diluted with suitable desensitisation 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.  
 Handle with care. Avoid jolting, friction and impact.  
 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****Storage:**

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

**Requirements to be met by 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 under lock and key and with access restricted to technical experts or their assistants only.  
 Store in a cool place.  
 Storage in a collecting room is required.

**Recommended storage temperature (To maintain quality):**

0 .... +25 °C

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- **Storage class:** 4.1A
- **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

#### 2372-21-6 O,O-tert-butyl isopropyl monoperoxydicarbonate

Dermal	DNEL Longterm System	4,5 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	15,868 mg/m <sup>3</sup> (Worker)

### · PNECs

#### 2372-21-6 O,O-tert-butyl isopropyl monoperoxydicarbonate

PNEC Marinewater sed	0,00023 mg/kg sed dw (-)
PNEC Freshwater	0,0002 mg/l (AF 10)
PNEC Seawater	0,00002 mg/l (AF 100)
PNEC Freshwater sed	0,0023 mg/kg sed dw (-)
PNEC Soil	0,00034 mg/kg soil dw (-)
PNEC STP	1,8 mg/l (AF 10)

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

- **8.2 Exposure controls**
- **Appropriate engineering controls**
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**

No further data; see section 7.

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.

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 observed.

- **Eye/face protection**



Tightly sealed goggles

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· Body protection:



Protective work clothing

## 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.
· Boiling point or initial boiling point and boiling range	Not applicable.
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	50 °C
· Decomposition temperature:	ca. +60 °C (SADT)
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	2 mPas
· 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:	0,883 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, and on safety.

· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Risk of explosion by shock, friction, fire or other sources of ignition.
· Change in condition	
· Evaporation rate	Not determined.

### · Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· 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	6,7 - 6,9 %

## SECTION 10: Stability and reactivity

### · 10.1 Reactivity

No further relevant information available.

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- **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 self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by 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, carbon dioxide 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 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:**

**2372-21-6 O,O-tert-butyl isopropyl monoperoxycarbonate**

Oral	LD50	>2.000 mg/kg (rattus)
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**93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated**

Oral	LD50	>5.000 mg/kg (rattus)
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- **Skin corrosion/irritation**

Causes skin irritation.
- **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**

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:**

**2372-21-6 O,O-tert-butyl isopropyl monoperoxycarbonate**

EC50 / 48h	0,314 mg/l (daphnia)
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**93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated**

EC50 / 48h	>0,04 mg/l (daphnia)
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IC50 / 72h	>0,04 mg/l (algae)
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- **12.2 Persistence and degradability**

· **Degree of elimination:**

· **Classification:**

**2372-21-6 O,O-tert-butyl isopropyl monoperoxycarbonate**

Degradation	(Readily biodegradable) (OECD 301 D)
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**93685-81-5 Hydrocarbons, C4, 1,3-butadiene-free, polymd., triisobutylene fraction, hydrogenated**

Degradation	(Not readily biodegradable)
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- **12.3 Bioaccumulative potential**

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

2372-21-6	O,O-tert-butyl isopropyl monoperoxycarbonate	2,5 (30°C)
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- **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** No further relevant information available.
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:** Also poisonous for fish and plankton in water bodies.  
Very toxic for aquatic organisms  
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 desensitisation agent to 10 %, the solution must be supplied to a special treatment (e. g. thermal utilization) under observance of all official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:** Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.
- **Uncleaned packaging:**
- **Recommendation:** This material and its container must be disposed of as hazardous waste.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN3103
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	UN3103 ORGANIC PEROXIDE TYPE C, LIQUID (tert.-BUTYLPEROXY ISOPROPYLCARBONATE), ENVIRONMENTALLY HAZARDOUS ORGANIC PEROXIDE TYPE C, LIQUID (tert.-BUTYLPEROXY ISOPROPYLCARBONATE), MARINE POLLUTANT ORGANIC PEROXIDE TYPE C, LIQUID (tert.-BUTYLPEROXY ISOPROPYLCARBONATE)
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul> <div style="display: flex; align-items: center; margin-left: 20px;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	5.2 (P1) Organic peroxides. 5.2
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> </ul> <div style="display: flex; align-items: center; margin-left: 20px;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	5.2 Organic peroxides. 5.2
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul> <div style="display: flex; align-items: center; margin-left: 20px;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	5.2 Organic peroxides. 5.2
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	Void

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· <b>14.5 Environmental hazards:</b>	Product contains environmentally hazardous substances: tert.-BUTYLPEROXY ISOPROPYLCARBONATE
· <b>Marine pollutant:</b>	Symbol (fish and tree)
· <b>Special marking (ADR):</b>	Symbol (fish and tree)
· <b>14.6 Special precautions for user</b>	Warning: Organic peroxides.
· <b>Hazard identification number (Kemler code):</b>	-
· <b>Stowage Category</b>	D
· <b>Stowage Code</b>	SW1 Protected from sources of heat.
· <b>Segregation Code</b>	SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ)</b>	25 ml
· <b>Excepted quantities (EQ)</b>	Code: E0 Not permitted as Excepted Quantity
· <b>Transport category</b>	1
· <b>Tunnel restriction code</b>	D
· <b>RID / GGVSEB:</b>	like ADR
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	25 ml
· <b>Excepted quantities (EQ)</b>	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  
E1 Hazardous to the Aquatic Environment

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

50 t

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

200 t

##### · 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.

## 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.

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**Safety data sheet**  
 according to Regulation (EC) No 1907/2006, Article 31

Printing date 04.04.2024

Version: 6 (replaces version 5)

Revision: 14.02.2023

Trade name: **PEROXAN BIC**

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H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H400 Very toxic to aquatic life.  
 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

· **Version number of previous version:**

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· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the 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  
 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  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Org. Perox. C: 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 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 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.**