

Trade name: **PEROXAN DC-40 PE-G**

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SECTION 3: Composition/information on ingredients**3.2 Mixtures****Dangerous components:**

| | | |
|--|--|--------|
| CAS: 80-43-3 EINECS: 201-279-3 Index number: 617-006-00-X Reg-No.: 01-2119541688-27 | bis(a,a-dimethylbenzyl) peroxide Org. Perox. F, H242; Repr. 1B, H360D; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317 | 40-50% |
|--|--|--------|

SVHC

80-43-3 bis(a,a-dimethylbenzyl) peroxide

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:

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

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:** 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.

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**

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. Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations.

6.4 Reference to other sectionsSee 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**

Open and handle receptacle with care.
Prevent formation of dust.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Before break and at the end of work hands should be thoroughly washed.
Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
While using do not eat, drink or smoke.
Avoid shock and friction.

Information about fire - and explosion protection:

Protect from heat.
Prevent impact and friction.
Dust can combine with air to form an explosive mixture.
Substance/product is oxidising when dry.



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

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 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:

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.
Storage in a collecting room is required.

Recommended storage temperature (To maintain quality):

max.: +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:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs**80-43-3 bis(a,a-dimethylbenzyl) peroxide**

| | | |
|------------|----------------------|---------------------------------------|
| Oral | DNEL Longterm System | 0,4 mg/kg bw/day (General population) |
| Dermal | DNEL Longterm System | 0,8 mg/kg bw/day (Worker) |
| | | 0,4 mg/kg bw/day (General population) |
| Inhalative | DNEL Longterm System | 5,6 mg/m3 (Worker) |
| | | 1,4 mg/m3 (General population) |

PNECs**80-43-3 bis(a,a-dimethylbenzyl) peroxide**

| | |
|-----------------------------|-------------------------|
| PNEC Freshwater | 0,00234 mg/l (AF 50) |
| PNEC Freshwater sediment | 2,24 mg/kg sed dw (-) |
| PNEC Soil | 0,447 mg/kg soil dw (-) |
| PNEC Sewage treatment plant | 100 mg/l (AF 10) |

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.

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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.
Not necessary if room is well-ventilated.

· **Respiratory protection:**



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

· **Material of gloves**

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

· **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

· **Body protection:**



Protective work clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

| | |
|---|-----------------------------|
| · Colour: | Whitish |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | Not applicable. |
| · Boiling point or initial boiling point and boiling range | Not applicable. |
| · Flammability | May cause fire. |
| · Lower and upper explosion limit | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Flash point: | Not applicable. |
| · Decomposition temperature: | +80 °C (SADT) |
| · pH | Not applicable. |
| · Viscosity: | |
| · Kinematic viscosity | Not applicable. |
| · Dynamic: | Not applicable. |
| · Solubility | |
| · water: | Undetermined. |
| · Partition coefficient n-octanol/water (log value) | not determined |
| · Vapour pressure: | Not applicable. |
| · Density and/or relative density | |
| · Density: | Not determined. |
| · Relative density | Not determined. |
| · Bulk density at 20 °C: | 330 - 360 kg/m ³ |
| · Vapour density | Not applicable. |
| · Particle characteristics | See section 3. |

· **9.2 Other information**

No further relevant information available.

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| | |
|--|------------------------------|
| · Appearance: | |
| · Form: | Solid Granulate |
| · Important information on protection of health and environment, and on safety. | |
| · Ignition temperature: | Product is not selfigniting. |
| · Explosive properties: | Not determined. |
| · Change in condition | |
| · Evaporation rate | Not applicable. |
| · Information with regard to physical hazard classes | |
| · Explosives | Void |
| · 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 |
| · 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 | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |
| · Other safety characteristics | |
| · Active oxygen | 2,3 - 2,4 % |

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 self-accelerating 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. |
| · 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. |

· LD/LC50 values relevant for classification:

80-43-3 bis(a,a-dimethylbenzyl) peroxide

| | | |
|--------|------|--------------------|
| Oral | LD50 | >2.000 mg/kg (Rat) |
| Dermal | LD50 | >2.000 mg/kg (Rat) |

| | |
|--|--------------------------------------|
| · Primary irritant effect: | |
| · Skin corrosion/irritation | Causes skin irritation. |
| · Serious eye damage/irritation | Causes serious eye irritation. |
| · Respiratory or skin sensitisation | May cause an allergic skin reaction. |

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- **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 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** 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:**

80-43-3 bis(a,a-dimethylbenzyl) peroxide

EC50 / 72h >20 mg/l (algae)

EC50 >1.000 mg/l (activa sludge)

· **12.2 Persistence and degradability**

· **Degree of elimination:**

· **Classification:**

80-43-3 bis(a,a-dimethylbenzyl) peroxide

Degradation (Not readily biodegradable) (OECD 301 F)

· **12.3 Bioaccumulative potential**

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

80-43-3 bis(a,a-dimethylbenzyl) peroxide

5,6 (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.

· **12.7 Other adverse effects**

No further relevant information available.

· **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.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR, IMDG, IATA**

UN3077

· **14.2 UN proper shipping name**

· **ADR**

UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DICUMYL PEROXIDE)

· **IMDG**



ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DICUMYL PEROXIDE), MARINE POLLUTANT

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| | |
|---|--|
| · IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DICUMYL PEROXIDE) |
| · 14.3 Transport hazard class(es) | |
| · ADR | |
|  | |
| · Class | 9 (M7) Miscellaneous dangerous substances and articles. |
| · Label | 9 |
| · IMDG, IATA | |
|  | |
| · Class | 9 Miscellaneous dangerous substances and articles. |
| · Label | 9 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: | Product contains environmentally hazardous substances: DICUMYL PEROXIDE |
| · Marine pollutant: | Yes Symbol (fish and tree) |
| · Special marking (ADR): | Symbol (fish and tree) |
| · Special marking (IATA): | Symbol (fish and tree) |
| · 14.6 Special precautions for user | Warning: Miscellaneous dangerous substances and articles. |
| · Hazard identification number (Kemler code): | 90 |
| · Stowage Category | A |
| · Stowage Code | SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information: | |
| · ADR | |
| · Limited quantities (LQ) | 5 kg |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g |
| · Transport category | 3 |
| · Tunnel restriction code | E |
| · RID / GGVSEB: | like ADR |
| · IMDG | |
| · Limited quantities (LQ) | 5 kg |
| · Excepted quantities (EQ) | Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g |

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 E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 30, 75

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| | |
|---|--|
| · 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 | |
| · 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. | |
| · Substances of very high concern (SVHC) according to REACH, Article 57 | |
| bis(a,a-dimethylbenzyl) peroxide | |
| · 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.

| | |
|---|---|
| · Department issuing SDS: | Environment protection / Security of labour |
| · Contact: | Tel: +49 2871 9902-0 E-mail: mail@pergan.com |
| · Version number of previous version: | 9 |
| · 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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Org. Perox. F: Organic peroxides – Type E/F Org. Perox. G: Organic peroxides – Type G Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 1B: Reproductive toxicity – Category 1B Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 |
| · * Data compared to the previous version altered. | |