


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

- 1.1 Product identifier PEROXAN BP-Paste 15 S 1
- Trade name:
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.
- Application of the substance / the mixture
Reaction initiator
For industrial use
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: PERGAN GmbH
Hilfsstoffe für industrielle Prozesse
Schlavenhorst 71
D-46395 Bocholt
Tel: +49 2871 9902-0
Fax: +49 2871 9902-50
- Further information obtainable 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
 - Eye Irrit. 2 H319 Causes serious eye irritation.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - STOT RE 2 H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
 - 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 GB CLP regulation.
- Hazard pictograms

 GHS07 GHS08 GHS09
- Signal word
Warning
- Hazard-determining components of labelling:
dibenzoyl peroxide
ethanediol
- Hazard statements
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H373 May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves / eye protection / face 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.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P391 Collect spillage.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:
The synthetic polymer microparticles supplied are subject to conditions laid down by entry 78 of Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council.
- 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 UK REACH, annex XIII.
- vPvB: The substances in the mixture do not meet the PBT/vPvB criteria according to UK 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: 56-81-5	glycerol	20-25%
EINECS: 200-289-5	substance with a Community workplace exposure limit	
Reg-No.: 01-2119471987-18		

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CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1 Reg-No.: 01-2119456816-28	ethanediol STOT RE 2, H373; Acute Tox. 4, H302	10-20%
CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg-No.: 01-2119511472-50	dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Eye Irrit. 2, H319; Skin Sens. 1, H317	10-20%
· 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.

· 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

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 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:



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

· 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

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

Open and handle receptacle with care.

Prevent formation of aerosols.

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).

Oxidizing because of releasing oxygene.

While using do not eat, drink or smoke.


Avoid shock and friction.

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Trade name: PEROXAN BP-Paste 15 S 1

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- **Information about fire - and explosion protection:**
 - Protect from heat.
 - Prevent impact and friction.
 -  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:**
 - Protect from heat and direct sunlight.
 - Protect from contamination.
 - Storage in a collecting room is required.
- **Recommended storage temperature (To maintain quality):** +5 ... +30 °C
- **Storage class:** 10-13
- **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:

56-81-5 glycerol

WEL (Great Britain)	Long-term value: 10 mg/m ³
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107-21-1 ethanediol

WEL (Great Britain)	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour
IOELV (EU)	Short-term value: 104 mg/m ³ , 40 ppm Long-term value: 52 mg/m ³ , 20 ppm Skin

94-36-0 dibenzoyl peroxide

WEL (Great Britain)	Long-term value: 5 mg/m ³
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· DNELs

107-21-1 ethanediol

Dermal	DNEL Longterm System	106 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm Local	35 mg/m ³ (Worker)

94-36-0 dibenzoyl peroxide

Dermal	DNEL Longterm System	34.3 mg/kg bw/day (Worker)
Inhalative	DNEL Longterm System	39 mg/m ³ (Worker)

· PNECs

107-21-1 ethanediol

PNEC Soil	5 mg/kg soil dw (AF 50)
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94-36-0 dibenzoyl peroxide

PNEC Marinewater sediment	0.001 mg/kg sed dw
PNEC Freshwater	0.00002 mg/l (AF 50)
PNEC Freshwater sediment	0.013 mg/kg sed dw
PNEC Soil	0.003 mg/kg soil dw
PNEC Sewage treatment plant	0.35 mg/l (AF 100)
PNEC Marinewater	0.000002 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.

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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>Avoid close or long term contact with the 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.</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 Protective gloves</p> <p>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

· General Information	
· Colour:	Grey
· 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:	Not determined.
· Decomposition temperature:	+50 °C (SADT)
· pH	Not determined
· Viscosity:	
· Kinematic viscosity	Not determined
· Dynamic at 20 °C:	20.000 - 28.000 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:	1.3 - 1.6 g/cm ³
· Relative density	Not determined
· Vapour density	Not determined

· 9.2 Other information

· Appearance:	
· Form:	Pasty
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Change in condition	
· Evaporation rate	Not determined
· Information with regard to physical hazard classes	Void

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 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, carbon dioxide and -monoxid.
Fire and decomposition may produce irritating, corrosive, flammable, harmful or toxic gases and vapours. Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.
- **Additional information:**

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:

56-81-5 glycerol

Oral	LD50	12,600 mg/kg (Rat)
Dermal	LD50	>18,700 mg/kg (rabbit)

107-21-1 ethanediol

Oral	LD50	4,000 mg/kg (Rat)
Dermal	LD50	~10,600 mg/kg (rabbit)

94-36-0 dibenzoyl peroxide

Oral	LD50	>5,000 mg/kg (Rat)
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- **Primary irritant effect:**
 - 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** 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** May cause damage to the kidneys through prolonged or repeated exposure. Route of exposure: Oral.
- **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:

107-21-1 ethanediol

LC50 / 96h	18,500 mg/l (oncorhynchus mykiss)
EC50 / 48h	>10,000 mg/l (daphnia)
EC50 / 96h	6,500-7,500 mg/l (pseudokirchneriella subcapitata)
NOEL / 48h	10 mg/l

94-36-0 dibenzoyl peroxide

EC50 / 72h	0.0711 mg/l (pseudokirchneriella subcapitata)
LC50 / 96h	0.0602 mg/l (oncorhynchus mykiss)
EC50 / 48h	110 mg/l (daphnia)

12.2 Persistence and degradability

· Degree of elimination:

· Classification:

56-81-5 glycerol

Degradation	(Readily biodegradable)
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107-21-1 ethanediol	
Degradation	(Readily biodegradable) (OECD 301 C)
94-36-0 dibenzoyl peroxide	
Degradation	(Readily biodegradable) (OECD 301 D)
12.3 Bioaccumulative potential	
· Partition coefficient: nOctanol/water: [Log Kow]	
56-81-5 glycerol	-1,75 (25°C)
107-21-1 ethanediol	-1,36 (25°C)
94-36-0 dibenzoyl peroxide	3,2 (20 °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 UK REACH, annex XIII.
· vPvB:	The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH, annex XIII.
· 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.	
· 12.7 Other adverse effects	
· Additional ecological information:	
· General notes:	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  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. (DIBENZOYL PEROXIDE)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL 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: DIBENZOYL 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.
· Stowage Category	A

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· 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 ml Maximum net quantity per outer packaging: 1000 ml
· 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 ml Maximum net quantity per outer packaging: 1000 ml

* **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Poisons Act	
· Regulated explosives precursors	None of the ingredients is listed.
· Regulated poisons	None of the ingredients is listed.
· Reportable explosives precursors	None of the ingredients is listed.
· Reportable poisons	None of the ingredients is listed.

· Directive 2012/18/EU	
· Named dangerous substances - ANNEX I	None of the ingredients is listed.
· Seveso category	E1 Hazardous to the Aquatic Environment
· Qualifying quantity (tonnes) for the application of lower-tier requirements	100 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements	200 t
· REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3, 78
· Additional information on Entry 78	The estimated overall proportion of microplastics in the mixture is approx. 1-2.5 % Process the product in closed systems or with suitable extraction/filtering techniques avoid release to soil wastewater surface water Collect cleaning waters separately and forward them to appropriate disposal do not discharge into the sewer system Collect product residues and contaminated packaging in containers do not rinse dispose of in accordance with legal requirements

· Synthetic polymer microparticles		
9002-88-4	Polyethylene low density Type of polymer: Polyethylene	1-2.5%

· 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.

· National regulations:	
· Other regulations, limitations and prohibitive regulations	
· Please note:	Take care of the respective local regulations.

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

Printing date 02.04.2026

Version: 3 (replaces version 2)

Revision: 02.04.2026

Trade name: **PEROXAN BP-Paste 15 S 1**

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 · **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.

- **Relevant phrases**
 - H241 Heating may cause a fire or explosion.
 - H302 Harmful if swallowed.
 - H317 May cause an allergic skin reaction.
 - H319 Causes serious eye irritation.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.

- **Department issuing SDS:** Environment protection / Security of labour
- **Contact:** Tel: +49 2871 9902-0
E-mail: mail@pergan.com

- **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 (UK REACH)
 - PNEC: Predicted No-Effect Concentration (UK REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Org. Perox. B: Organic peroxides – Type B
 - Acute Tox. 4: Acute toxicity – Category 4
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - Skin Sens. 1: Skin sensitisation – Category 1
 - STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 - 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

- *** Data compared to the previous version altered.**