


1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** **PEROXAN BP-Pulver 20**
- **Application of the substance / the preparation**
 - Reaction initiator
 - For industrial use
- **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
 - Competent person:
 - * Kathrin Bohland (Sales) e-mail: k.bohland@pergan.com
 - * Christoph Wilting (Environment protection / Security of labour) e-mail: c.wilting@pergan.com
- **Information in case of emergency:**
 - Tel: +49 2871 9902-0

2 Hazards identification

- **Hazard description:**



 - Xi Irritant
 - O Oxidising
- **Information concerning particular hazards for human and environment:**
 - The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
 - R 7 May cause fire.
 - R 36 Irritating to eyes.
 - R 43 May cause sensitisation by skin contact.
- **Classification system:**
 - The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

· **Chemical characterization**

· **Dangerous components:**

CAS: 94-36-0	dibenzoyl peroxide	Xi, E; R 2-36-43	20-25%
EINECS: 202-327-6			
Index number: 617-008-00-0			

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 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.


5 Fire-fighting measures

- **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:** Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information**
 - Cool endangered receptacles with water spray.
 - Self-protection first!


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6 Accidental release measures

- **Person-related safety precautions:** 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.
- **Measures for environmental protection:**  Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:** Ensure adequate ventilation. Pick up mechanically, collect in a suitable receptacle and dispose in accordance with government regulations.
- **Additional information:** In case of large spillage the environmental authority should be informed.

7 Handling and storage

- **Handling:** Pay attention to the special requirements of your local authorities for handling with dangerous goods.
- **Information for safe handling:** Keep receptacles tightly sealed. Store in cool, dry place in tightly closed receptacles. 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. Oxidizing because of releasing oxygene. Avoid contact with skin and eyes. While using do not eat, drink or smoke. Avoid shock and friction. Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).
- **Information about fire - and explosion protection:** Prevent impact and friction.  Avoid open flames, sparks, direct sunlight and other sources of ignition.
- **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:** 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 in a cool place.
- **Recommended storage temperature (To maintain quality):** max.: +30°C
- **Storage class:** 5.2 "Organic Peroxides" (VCI Guideline)

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

94-36-0 dibenzoyl peroxide

WEL (Great Britain) Long-term value: 5 mg/m³

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




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.

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<ul style="list-style-type: none"> · Respiratory protection: · Protection of hands: · Material of gloves · Penetration time of glove material · Eye protection: · Body protection: 	<p>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. Use suitable respiratory protective device in case of insufficient ventilation.</p> <p> Filter P2</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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9 Physical and chemical properties

· General Information	
· Form:	Solid Powder
· Colour:	greywhite
· Odour:	Characteristic
· Change in condition	
· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	May cause fire.
· Decomposition temperature:	+60°C (SADT)
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/dust mixtures are possible.
· Density:	Not determined.
· Solubility in / Miscibility with water:	Insoluble.
· Segregation coefficient (n-octanol/water):	not determined
· Active oxygen	1,3 - 1,4 %

10 Stability and reactivity

<ul style="list-style-type: none"> · Thermal decomposition / conditions to be avoided: · Materials to be avoided: 	<p>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. Rapid decomposition by dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy-metal compounds and amines).</p>
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- **Dangerous reactions** Self-accelerating decomposition at SADT.
- **Dangerous 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.

11 Toxicological information

· **Acute toxicity:**

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

94-36-0 dibenzoyl peroxide

Oral	LD50	>5000 mg/kg (rattus)
Inhalative	LC50 / 4h	>24.3 mg/l (rattus)

· **Primary irritant effect:**

- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

94-36-0 dibenzoyl peroxide

EC50	35 mg/l (bacteria)
EC50 / 48h	2.91 mg/l (daphnia)
LC50 / 96h	2.0 mg/l (poecilia reticulata)

- **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.

13 Disposal considerations

· **Product:**

· **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.

14 Transport information

· **Transport/Additional information:**

Not subject to the requirement for Class 5.2. (exempt)

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**



Xi Irritant
O Oxidising

· **Hazard-determining components of labelling:**

dibenzoyl peroxide

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- **Risk phrases:**
 - 7 May cause fire.
 - 36 Irritating to eyes.
 - 43 May cause sensitisation by skin contact.
- **Safety phrases:**
 - 3/7 Keep container tightly closed in a cool place.
 - 14 Keep away from dirt, rust, chemicals in particular concentrated acids, alkalis and accelerators (e. g. heavy metal compounds and amines).
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 60 This material and its container must be disposed of as hazardous waste.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Please note:** Take care of the respective local regulations.

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 R-phrases**
 - 2 Risk of explosion by shock, friction, fire or other sources of ignition.
 - 36 Irritating to eyes.
 - 43 May cause sensitisation by skin contact.
- **Department issuing MSDS:** Environment protection / Security of labour
- **Contact:**
 - Tel: +49 2871 9902-0
 - E-mail: mail@pergan.com