

1. Identification of the substance/preparation and of the company**Trade name**

BPO paste, red/white/colourless

Use of the substance / preparation

Curing agent for polyester filler and polyester resin

Manufacturer / marketer identificationVOSSCHEMIE GmbH
Esinger Steinweg 50

D-25436 Uetersen

Tel. +49-4122/717-0 Fax. +49-4122/717158

Information provided by:

Laboratory / Telephone: +49-4122-717-0

Emergency information:Giftinformationszentrum(GIZ)-Nord, Göttingen
Telephone Numbers: +49-551-19240, +49-551-383180**Distributor in New Zealand**R A Johnstone & Co Ltd
739 Great South Road, Otahuhu
PO Box 97 948 SAMC. Manukau 2240
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Ph :+64 9 261 0333
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www.raj.co.nz**Emergency telephone in New Zealand
National Poison Center(24 hours):
0800 POISON [764 766]****2. Composition/information on ingredients****Chemical characterization****Description**

Dibenzyl peroxide in plasticizer and other additives

Dangerous components

CAS No.	EC No	content unit	danger symbol	R phrases
Identification according to EEC Directive Classification				

94-36-0	202-327-6	49,5-51,0 % E,Xi	R02, R36, R43
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BENZOYL PEROXIDE
E, R02
Xi, R36
R43

Full text of R-Phrases: see under section 16.

3. Hazards identification

May cause fire.
Irritating to eyes.
May cause sensitization by skin contact.

Highly flammable and oxidising.
Danger of fire in case of contact with combustible or other
substances promoting decomposition.

The HSNO Approval Number for this Group Standard is HSR002629



4. First aid measures

First aid measures / general indications

Remove contaminated clothes without delay.

First Aid measures / inhalation

Take the patient out of the dangerous area, provide for fresh air, then seek immediately for medical attention.

First Aid measures / skin contact

Wash with plenty of water and soap. In case of rash, medical attention is necessary.

First Aid measures / eye contact

Rinse immediately with plenty of water (for at least 15 minutes), then call for a doctor.

First Aid measures / ingestion

Do not induce vomiting. Seek immediately for medical attention.

5. Fire-fighting measures

Appropriate extinguishing media

Water spray, foam, extinguishing powder

Carbon dioxide

Water spray in large amounts, from a safe distance. Small fires can also be extinguished with powder or carbon dioxide, in such cases however prolonged spraying of water is required, to prevent the fire from starting anew.

Extinguishing media that must not be used for safety reasons

Halons

Special hazards arising from the product itself, from combustion products or from resulting gases

In case of fire the product supports the combustion.

Do not inhale explosion or combustion gases. See also point 10.

Special protective equipment for fire-fighters

Wear protective clothing and self-contained breathing apparatus.

Additional information

Cool threatened containers with water in case of fire.

6. Accidental release measures

Do not let this product enter into soil, water and drains.

Remove sources of ignition, provide sufficient ventilation.

Keep unauthorised persons at a distance.

Take up with a polyethylene shovel, store temporarily in a clean cask with a loose lid in a safe place and dispose as soon as possible according to the local legislative provisions.

See also point 13

7. Handling and storage

Handling

This product is sensitive to heat and many foreign substances, in particular amine accelerators. See also point 10. Follow clean work procedures. Close containers immediately after drawing out product.

Never mix with the accelerator. When using polyester resin, this product must be dosed and mixed separately.

Never store peroxides in a confined space, so that no dangerous built-up can take place after possible decomposition.

Do not expose to foreign substances promoting decomposition, do not expose to heat and direct sunlight.

Keep away from sources of ignition - no smoking.

This product is combustible, explosive decomposition is possible under unfavourable conditions.

Take measures against explosion. Earth when emptying and filling cask.

Storage

Store only in original, closed containers, away from other substances. Storage temperature max. +25 °C.

Keep away from food, drink and animal feeding stuffs

8. Exposure controls/personal protection

Additional technical indications on the technical installations
Explosion-proof ventilation recommended.

Components for which limit values for exposure at the place of work exist (Germany):

Identification according to EEC Directive

CAS No	EC No	limit value
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BENZOYL PEROXIDE

94-36-0	202-327-6	AGW	5	mg/m3	E
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Personal protection

Respiratory protection
Provide good ventilation.

Hand protection
Use protective gloves (rubber, PVC)

Eye protection
Use tightly fitting safety goggles.

General measures of precaution
Protective clothing.

Additional measures
Apply a suitable skin protective agent before work.
Do not eat, drink or smoke during work.
Wash hands before pauses and when ending work.
Remove contaminated clothes immediately.

Store working clothes separately.

9. Physical and chemical properties

Appearance

Form : pasty

Colour : red/white/colourless

Odour : noticeable

Security-relevant data

Melting temperature

Reference value From To
 - 10 °C

Method:

Decomposes upon distillation

Flash point: > 50 °C

Method :

Flammability : °C

Method : unknown

Self-ignition: > 380°C

Method :

Lower explosion limit: % vol

Method : not applicable

Upper explosion limit: % vol

Method : not applicable

Vapour pressure: °C

Method : unknown

Density at: 20°C ca. 1,15 g/cm³

Method :

Solubility in water: insoluble

PH value: slightly acid

Viscosity: pasty

Additional data

The physical data refer to the security relevant component(s) as used, approximate values are given.

10. Stability and reactivity

Dangerous reactions

Stable only with inert materials. Thermal decomposition or direct contact with foreign matters/impurities, including reducing agents (e.g. amine accelerators), heavy metals compounds (particularly cobalt accelerators), acids and bases, can lead to dangerous, autoaccelerating decomposition reactions, which may result in explosion or fire.

Hazardous decomposition products

Among others: carbon dioxide, benzoic acid, benzene, diphenyl, phenylbenzoate.

Thermal decomposition

50°C (accumulated heat), SADT

Additional information (10)

Suitable materials: stainless steel (DIN 1.4571), PVC, polyethylene, glass-coated apparatus.

11. Toxicological information

+ The following is known on dibenzoylperoxide, in aqueous solutions (78%):

LD 50 (acute, oral, rat): > 5000 mg/kg

LD 50 (acute, inhalation, rat, 4 hours): > 24,3 mg/kg

Eyes (rabbit): moderately irritating

Skin (rabbit): not irritating after single exposure.

For sensitive persons, repeated or prolonged contact with roughened or damaged skin may result in allergic skin reactions. May cause sensitization.

Mutagenicity: Ames test negative

Dominant lethal test (mouse): negative (54 and 62 mg/kg intraperit).

12. Ecological information

Do not let enter into water or sewer.

The following is known on dibenzoylperoxide in solutions (78%), stabilised with water:

Acute bacterial toxicity EC10 = 2,2 mg/l

(activated inoculum, EC50 = 35 mg/l

respiration inhibition test):

Acute fish toxicity: LC50 = 2,0 mg/l (96 h)

(Zebra-fish) NOEC value = 0,7 mg/l

Biodegradability

(closed bottle test): readily biodegradable.

13. Advice on disposal

Disposal / product

Do not dispose with domestic waste.

Dilute the product to a concentration of 10% in peroxide with suitable inert liquids and destroy according to legislation on waste disposal. Contaminated and empty containers are also destroyed according to legislation on waste disposal.

Waste code no. / name of waste

16 05 06 Laborchemikalien, die aus gefährlichen Stoffen bestehen oder solche enthalten, einschliesslich Gemische von Lab

The waste codes quoted are only recommendations. Other waste

codes may also be possible with regard to different regional regulations.

14. Transport information

Land transport / lorry / international / comments

UN-No.: 3108
Organisches Peroxid Typ E, fest; (Dibenzoylperoxid)
ADR/RID-GGVS/E: 5.2 /

Inland waterway transport / comments

ADN/ADNR non communicated

Sea transport / comments

UN-No.: 3108
Organic peroxide type E, solid; (dibenzoyl peroxide)
IMDG/GGVSee: 5.2 /
EMS: F-J, S-R
Marine pollutant:

Air transport / comments

UN-No.: 3108
Organic peroxide type E, solid; (dibenzoyl peroxide)
ICAO/IATA-DGR: 5.2 /



15. Regulatory information

Labelling [The HSNO Approval Number for this Group Standard is HSR002629](#)

Contains:
DIBENZOYLPEROXIDE

Symbol and indication of danger

O Oxidising
Xi Irritant

R phrases

R 07 May cause fire
R 36 Irritating to eyes
R 43 May cause sensitization by skin contact

S phrases

S 02 Keep out of reach of children
S 03/07 Keep container tightly closed in a cool place.
S 14 Keep away from dirt, rust, chemicals, particularly reducing substances, acids, bases, amines and heavy metals bounded substances (accelerator, dessicating abents, metallic soaps).
Keep away from an open flame, sparks or other igniton sources and direct sunlight.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 50 Do not mix with reductors or accelerators.

National regulations (D)

The legal regulations for limited employment, e.g. the law for the protection of youth work and the decree for the legal protection of motherhood, have to be observed.

Class of danger to water (WGK):
2 (own assessment, not checked)

Consult the technical leaflets by BG-Chemie (Employment Accident Insurance Fund for the Chemical Industry)
M 001 ``Organische Peroxide``
M 023 ``Polyester- und Epoxid-Harze``.

16. Other information

Relevant R phrases

R 02 Risk of explosion by shock, friction, fire or other sources of ignition
R 07 May cause fire
R 36 Irritating to eyes
R 43 May cause sensitization by skin contact

* + Data changed compared with the previous version.

Sections where no data are entered indicate that no data are known, or no experience is available. This does not justify the assumption that no danger can arise from the relevant point under consideration.

The information given is based on the current state of our knowledge and experience. The safety data sheet describes products with regard to safety requirements. The data do not represent a guarantee of properties.

This product may only be used according to its foreseen aim.

All persons in contact with organic peroxides should be duly informed about their safe use, in order to avoid accidents.