

Material Safety Data Sheet



BENZOYL PEROXIDE

(moistened with 25% water)

VERSION : 04

DATE OF ISSUE : 01-08-2023

SUPERSEDES : 03

Product Code : 12770

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : BENZOYL PEROXIDE
Product code : 12770
Identification of the product : Benzoyl Peroxide
CAS No : 94-36-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM
Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,
Mumbai – 400 002 (INDIA)
Tel:+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat
Textile Co.,Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm)

2. Hazards identification –DSD

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Organic peroxides (Type C), H242 : Heating may cause a fire.

Eye irritation (Category 2), H319: Causes serious eye irritation.

Skin sensitization (Category 1), H317 : May cause an allergic skin reaction.

Short-term (acute) aquatic hazard (Category 1), H400 : Very toxic to aquatic life

Long-term (chronic) aquatic hazard (Category 1), H410 : Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Danger

Hazard statement(s)

H242 Heating may cause a fire.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

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Precautionary statement(s)

| | |
|--------------------------------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P235 | Keep cool. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |
| P370 + P378 | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |
| P410 | Protect from sunlight. |
| Supplemental Hazard Statements | none |

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Substances

| | |
|------------------|--|
| Synonyms | : Dibenzoyl peroxide |
| Formula | : C ₁₄ H ₁₀ O ₄ |
| Molecular weight | : 242.23 g/mol |

4. First aid measures

4.1. Description of first aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3. Indication of any immediate medical attention and special treatment needed

No data available

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Has a fire-promoting effect due to release of oxygen.

Avoid shock and friction. In the event of decomposition: danger of explosion!

Explosive decomposition possible on heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed and away from sources of ignition and heat. Observe national regulations.

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.
Respiratory protection : Wear approved mask.
Hand protection : Wear protective gloves.
Skin protection : Wear suitable protective clothing.
Eye protection : Chemical goggles or safety glasses.
Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Color : white
Odor : odorless
Melting point/freezing point : Melting point/range: 100 - 105 °C
Initial boiling point and boiling range : No data available
Flammability (solid, gas) : No data available
Upper/lower flammability or explosive limits : No data available
Flash point : Not applicable
Autoignition temperature : Not applicable
Decomposition temperature : 70 °C
pH : No data available
Viscosity : Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Water solubility : No data available
Partition coefficient: n-octanol/water : No data available
Vapor pressure : No data available

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| | |
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| Density | 1.33 g/cm ³ at 25 °C |
| Relative density | No data available |
| Relative vapor density | No data available |
| Particle characteristics | No data available |
| Explosive properties | No data available |
| Oxidizing properties | None |

9.2. Other information

No data available

10. Stability and reactivity

10.1. Reactivity

Explosive Mechanical sensitivity (friction) sensitive to shock The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

10.2. Chemical stability

Decomposes on exposure to light. The product is chemically stable under standard ambient conditions (room temperature) . Contains the following stabilizer(s): water (25 %)

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Heating may cause a fire.
Temperatures above melting point.
no information available

10.5. Incompatible materials

no information available

10.6. Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|--|
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : No data available |
| Serious eye damage/irritation | : No data available. |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : No data available |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

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12. Ecological information

12.1. Toxicity

Mixture

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

13. Disposal considerations

13.1. Waste treatment methods

No data available

14. Transport information

14.1. UN number

ADR/RID: - 3104

IMDG : 3104

IATA: 3104

14.2. UN proper shipping name

ADR/RID :

ORGANIC PEROXIDE TYPE C, SOLID
(DIBENZOYL PEROXIDE)

IMDG:

ORGANIC PEROXIDE TYPE C, SOLID
(DIBENZOYL PEROXIDE)

IATA:

Organic peroxide type C, solid
(Dibenzoyl peroxide)

14.3. Transport hazard class(es)

ADR/RID : 5.2

IMDG : 5.2

IATA : 5.2

14.4. Packaging group

ADR/RID :

IMDG :

IATA :

14.5 Environmental hazards

ADR/RID : no

IMDG : Marine pollutant: no

IATA : no

14.6 Special precautions for user

No data available

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15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

: SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

: ENVIRONMENTAL HAZARDS

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

16. Other information

Abbreviations and acronyms :

PBT : persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008
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