

MATERIAL SAFETY DATA SHEET (SDS/MSDS)

BENZOYL PEROXIDE (WITH 25% WATER) 98% EXTRA PURE

CAS-No.: 94-36-0

Product Code: 00391

Molecular Formula : $C_{14}H_{10}O_4$

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

1.1. Product identifier

Product form	:	Substance
Trade name	:	Benzoyl Peroxide (with 25% Water) 98% Extra Pure
EC no	:	202-327-6
CAS-No.	:	94-36-0
Synonyms	:	Dibenzoyl peroxide / Benzoyl peroxide

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Company : Chemnovo Synthesis Pvt Ltd.
N-226 Near Kumbhavali Naka
Tarapur MIDC, Boisar-401 506
Palghar, Maharashtra
Telephone : +91 7400096089
Email: export@chemnovo.in

1.4. Emergency telephone number

Emergency number : + 91 7400096089 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Self-Reactive Substances H242

and Mixtures, Type C

Serious eye damage/eye H319

irritation, Category 2

Skin sensitisation, H317

Category 1

Full text of H statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

O; R7

Xi; R36

R43

R1

Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02



GHS07

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H242 – Heating may cause a fire. H317 – May cause an allergic skin reaction. H319 – Causes serious eye irritation.
Precautionary statements (CLP)	:	P220 – Keep away from clothing and other combustible materials. P280 – Wear protective gloves/protective clothing/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. P410 – Protect from sunlight. P420 – Store separately.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	:	Benzoyl Peroxide (with 25% Water) 98% Extra Pure
CAS No	:	94-36-0
EC no	:	202-327-6

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	:	Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	:	Wash with plenty of water/.... Get medical advice/attention. Wash contaminated clothing before reuse.

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First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting.

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

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media : Do not use extinguishing media containing water.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Heating may cause a fire.

Hazardous decomposition products in case of fire : Thermal decomposition generates : Toxic fumes may be released.

5.3. Advice for firefighter

Firefighting instructions : Fight fire remotely due to the risk of explosion. DO NOT fight fire when fire reaches explosives. Evacuate area.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking. Remove ignition sources. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Additional hazards when processed	:	Hazardous waste due to potential risk of explosion.
Precautions for safe handling	:	Do not breathe vapours. Keep away from sources of ignition - No smoking. Avoid contact with skin and eyes.
Hygiene measures	:	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Proper grounding procedures to avoid static electricity should be followed. Storage conditions : Keep in fireproof place. Store in a well-ventilated place. Keep cool.
Incompatible materials	:	Heat sources. combustible materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection	:	Protective gloves
Eye protection	:	Chemical goggles or safety glasses
Skin and body protection	:	Wear suitable protective clothing
Respiratory protection	:	[In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Molecular mass	:	242.23 g/mol
Colour	:	white.
Odour	:	faint odor of benzaldehyde.
Odour threshold	:	No data available
pH	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Melting point	:	103 - 104 °C
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	40 °C
Auto-ignition temperature	:	80 °C
Decomposition temperature	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available

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Relative density	:	No data available
Density	:	1.334 g/cm ³
Solubility	:	Water: Slightly soluble in water
Log Pow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Explosive when dry.
Oxidising properties	:	May intensify fire; oxidiser.
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity**10.1. Reactivity**

No additional information available

10.2. Chemical stability

Heating may cause a fire. Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Sparks. Open flame.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Not classified
Serious eye damage/irritation	:	Causes serious eye irritation.
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	:	Not classified
STOT-repeated exposure	:	Not classified
Aspiration hazard	:	Not classified

SECTION 12: Ecological information**12.1. Toxicity**

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	:	Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Additional information	:	Clean up even minor leaks or spills if possible without unnecessary risk. Hazardous waste due to potential risk of explosion.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA /AND

14.1. UN number

UN-No. (ADR)	:	3104
UN-No. (IMDG)	:	3104
UN-No. (IATA)	:	3104
UN-No. (ADN)	:	3104
UN-No. (RID)	:	3104

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	ORGANIC PEROXIDE TYPE C, SOLID
Proper Shipping Name (IMDG)	:	ORGANIC PEROXIDE TYPE C, SOLID
Proper Shipping Name (IATA)	:	ORGANIC PEROXIDE TYPE C, SOLID
Proper Shipping Name (ADN)	:	ORGANIC PEROXIDE TYPE C, SOLID
Proper Shipping Name (RID)	:	ORGANIC PEROXIDE TYPE C, SOLID
Transport document description (ADR)	:	UN 3104 ORGANIC PEROXIDE TYPE C, SOLID, 5.2, (D)
Transport document description (IMDG)	:	UN 3104 ORGANIC PEROXIDE TYPE C, SOLID, 5.2
Transport document description (IATA)	:	UN 3104 ORGANIC PEROXIDE TYPE C, SOLID, 5.2
Transport document description (ADN)	:	UN 3104 ORGANIC PEROXIDE TYPE C, SOLID, 5.2
Transport document description (RID)	:	UN 3104 ORGANIC PEROXIDE TYPE C, SOLID, 5.2

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 5.2
Danger labels (ADR) : 5.2
:



IMDG

Transport hazard class(es) (IMDG) : 5.2
Danger labels (IMDG) : 5.2
:



IATA

Transport hazard class(es) (IATA) : 5.2
Hazard labels (IATA) : 5.2
:



AND

Transport hazard class(es) (ADN) : 5.2
Danger labels (ADN) : 5.2



RID

Transport hazard class(es) (RID)	:	5.2
Danger labels (RID)	:	5.2
	:	



14.4. Packing group

Packing group (ADR)	:	Not applicable
Packing group (IMDG)	:	Not applicable
Packing group (IATA)	:	Not applicable
Packing group (ADN)	:	Not applicable
Packing group (RID)	:	Not applicable

14.5. Environmental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	:	P1
Special provisions (ADR)	:	122, 274
Limited quantities (ADR)	:	100g
Excepted quantities (ADR)	:	E0
Packing instructions (ADR)	:	P520
Mixed packing provisions (ADR)	:	Mp4
Transport category (ADR)	:	1
Special provisions for carriage - Packages (ADR)	:	V1
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV15, CV20, CV22, Cv24

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Special provisions for carriage – Operation

(ADR)	:	S8, S18
Tunnel restriction code (ADR)	:	D
EAC code	:	1WE
– Transport by sea		
Special provisions (IMDG)	:	122, 195, 274
Limited quantities (IMDG)	:	100 g
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P520
EmS-No. (Fire)	:	F-J
EmS-No. (Spillage)	:	S-R
Stowage category (IMDG)	:	D
Stowage and handling (IMDG)	:	Sw1
Segregation (IMDG)	:	SG35, Sg36
MFAG-No	:	146
– Air transport		
PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Forbidden
PCA limited quantity max net quantity (IATA)	:	Forbidden
PCA packing instructions (IATA)	:	570
PCA max net quantity (IATA)	:	5kg
CAO packing instructions (IATA)	:	570
CAO max net quantity (IATA)	:	10kg
Special provisions (IATA)	:	A20, A150
ERG code (IATA)	:	5L
– Inland waterway transport		
Classification code (ADN)	:	P1
Special provisions (ADN)	:	122, 274
Limited quantities (ADN)	:	100 g
Excepted quantities (ADN)	:	E0
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	Ve01
Number of blue cones/lights (ADN)	:	0
– Rail transport		
Classification code (RID)	:	P1
Special provisions (RID)	:	122, 274
Limited quantities (RID)	:	100g
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P520
Mixed packing provisions (RID)	:	Mp4
Transport category (RID)	:	1
Special provisions for carriage – Packages (RID)	:	W7

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Special provisions for carriage – Loading,

unloading and handling (RID) : CW22, CW24, Cw29

Colis express (express parcels) (RID) : Ce10

Hazard identification number (RID) : 539

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

No REACH Annex XVII restrictions

Benzoyl Peroxide (with 25% Water) 98% Extra Pure is not on the REACH Candidate List

Benzoyl Peroxide (with 25% Water) 98% Extra Pure is not on the REACH Annex XIV List

15.1.2. National regulations**Germany**Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water
(Classification according to AwSV; ID No. 1100)

12th Ordinance Implementing the Federal

Immission Control Act – 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Ontwikkeling

Denmark

Class for fire hazard : Class II-1

Store unit : 5 liter

Classification remarks : R10 <H242;H317;H319>; Emergency management guidelines for the
storage of flammable liquids must be followedRecommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the
product**15.2. Chemical safety assessment**

No additional information available

SECTION 16: Other information

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Full text of R-, H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Self-react. C	Self-Reactive Substances and Mixtures, Type C
Skin Sens. 1	Skin sensitisation, Category 1
H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
R1	Dependent on the composition
R36	Irritating to eyes
R43	May cause sensitisation by skin contact
R7	May cause fire
O	Oxidising
Xi	Irritant

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Chemnovo Synthesis Pvt Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.chemnovo.in for additional terms and conditions of sale.

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