
Material Safety Data Sheet

Product Name	<u>Benzyl Benzoate</u>
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Benzyl Benzoate**Synonyms:** Benzoic acid phenyl methyl ester**CAS-No:** 120-51-4**EC-No.:** 204-402-9**Molecular Formula:****REACH Registration No:** A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.**1.2. Relevant identified uses of the substance or mixture and uses advised against:****Recommended Use:** For analysis, pharmaceutical production**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad,
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- **E-Mail Address** safety@finarchemicals.com; info@finarchemicals.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 - 40040085

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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4, Oral, H302

Acute aquatic toxicity, Category 1, H400

Chronic aquatic toxicity, Category 2, H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2. Label Elements:

Labeling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H302 Harmful if swallowed

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P270 - Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P 330 - Rinse mouth

P391 - Collect spillage

2.3. Other Hazards: None Known

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Benzyl Benzoate

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Benzyl Benzoate	120-51-4	204-402-9	>95

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- **General advice**

If system persists, call a physician.

- **If inhaled**

Fresh air.

- **If breathing stop**

Immediately apply artificial respiration, if necessary, also oxygen.

- **If Contact with skin**

Take off immediately all contaminated clothing. Rinse skin with water/ shower.

- **In case of eye contact**

Rinse out with plenty of water. Remove contact lenses.

- **If swallowed**

Immediately make victim drink water (two glasses at most). Consult a physician.

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

Irritant effects, agitation, spasms, Diarrhoea, Nausea, Vomiting, cardiovascular disorders, ataxia (impaired locomotor coordination)

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

No data available

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SECTION 5: FIREFIGHTING 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:**5.3. Advice for firefighters:**

Special protective equipment for fire fighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures:**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact.

Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment 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 carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly.

Clean up affected area.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Advice on safe handling

Observe label precaution.

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Hygiene measures-

Immediately change contaminated clothing. Apply preventive skin protection.

Wash hands and face after working with substance.

7.2. Conditions for safe storage, including any incompatibilities:

Storage Condition

Tightly closed.

Recommended storage temperature see product label.

7.3. Specific end use(s):

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Personal Protective Equipment:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

- **Eye & Face Protection-**

Safety goggles

- **Hand Protection -**

Full contact: -

Glove material:	Butyl rubber
Glove thickness:	0.70 mm
Break through time:	> 480 min

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Splash contact: -

Glove material:	Nitrile rubber
Glove thickness:	0.40 mm
Break through time:	> 30 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 898 Butoject® (full contact), KCL 730 Camatril® - Velours (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet (>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

- **Body Protection-**

Protective clothing

- **Respiratory Protection-**

Required when vapours/aerosols are generated.

Recommended Filter type: Filter A- (acc. To DIN 3181) for vapours of organic compounds

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

- **Environmental Exposure Controls-**

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** Colorless
- **Physical State:** Liquid
- **Odour:** Weakly aromatic

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- **pH:** No data available
- **Melting Point:** 21°C
- **Auto-Ignition Temperature:** 480°C
- **Vapor Pressure:** < 0.1 hPa at 25°C / 0.13 mbar @ 20 °C
- **Relative Vapor Density:** 7.31 / 3.72
- **Density:** 1.12 g/cm³ at 20 °C
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Odor Threshold:** No data available
- **Viscosity, dynamic:** 10.9 mPa.s at 25°C
- **Water/Oil Dist. Co eff.:** No data available
- **Partition coefficient: n-octanol/water:** log Pow: 3.97 (25 °C)
(experimental)
(Lit.) Bioaccumulation is not expected.
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:** 324°C at 1.013 hPa
- **Flash Point:** 158°C
- **Specific Gravity / Density:** No data available
- **Water Solubility:** 0.0153 g/l at 20°C

9.2. Other information:

Molecular Formula: C₁₄ H₁₂ O₂

Molecular Weight: 212 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: -

Forms explosives mixtures with air on intense heating.

A range from approx. 15 kelvin below the flash point is to be rated as critical.

10.2. Chemical stability: -

The product is chemically stable under standard ambient conditions (room temperature)

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10.3. Possibility of hazardous reactions: -

Violent reactions possible with:

Strong oxidizing agents

10.4. Conditions to avoid: - Strong Heating**10.5. Incompatible materials: - Various Plastic, light metal, metal alloys****10.6. Hazardous decomposition products: -**

No information Available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects**Acute Oral toxicity**

LD50 Rat: 1,904 mg/kg

(RTECS)

Symptoms: Nausea, Vomiting, Diarrhoea

Acute Inhalation Toxicity

Symptoms: Irritation symptoms in the respiratory tract.

Acute Dermal toxicity

LD50 Rabbit: 4,000 mg/kg

(RTECS)

Skin corrosion/irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

Serious eye damage/eye irritation**Sensitisation**

Patch test: human

Result: negative

(IUCLID)

Sensitisation test: Guinea pig

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Result: negative
 (IUCLID)
 Sensitisation test: Mouse
 Result: negative
 Method: OECD Test Guideline 429

Germ cell mutagenicity

Genotoxicity in vitro
 Ames test
 Result: negative
 (IUCLID)

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Further Information

Systemic effects:
 cardiovascular disorders, agitation, spasms, ataxia (impaired locomotor coordination)
 Other dangerous properties cannot be excluded.
 Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish: Semi-static test LC50 Danio rerio (zebra fish): 0.29 mg/l; 96 h
 Analytical monitoring: yes
 Directive 67/548/EEC, Annex V, C.1.

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Toxicity to daphnia and other aquatic invertebrates: Static test EC50 Daphnia magna (Water flea): 3.09 mg/l; 48 h
 Analytical monitoring: yes
 OECD Test Guideline 202

Toxicity to algae: Static test ErC50 Pseudokirchneriella subcapitata (green algae): 0.475 mg/l; 72 h
 Analytical monitoring: yes
 OECD Test Guideline 201

Toxicity to bacteria: Static test EC50 activated sludge: > 10,000 mg/l; 3 h
 OECD Test Guideline 209

12.2 Persistence and degradability:

Biodegradability 94 %; 28 d; aerobic
 C.4-D of the COUNCIL REGULATION (EC) No 440/2008
 Readily biodegradable

12.3 Bioaccumulate potential:

Partition Coefficient: - n-Octanol/water
 log Pow: 3.97 (25°C)
 (experimental)
 Bioaccumulation is not expected.

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the national and local regulations.
 Leave chemicals in original containers. No mixing with other waste.
 Handle uncleaned containers like the product itself.

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SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	UN 3082		
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE)		
14.3 Class	9		
14.4 Packing group	III		
14.5 Environmentally hazardous	Yes		
14.6 Special precautions for user	Yes Tunnel Restriction Code E Packages smaller than or equal to 5 kg / L , not dangerous goods of Class 9	No	Yes Ems F-A S-F Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:			
Not relevant			

SECTION 15: Regulatory information

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

National Legislation

Storage class 10-13

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

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SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

- H302 Harmful if swallowed.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Training advice

Provide adequate information, instruction and training for operators.

Labelling

Hazard pictograms



Signal word: Warning

Hazard statements

- H302 Harmful if swallowed.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

- P273 Avoid release to the environment.

References: Not available

Created: 10/06/2020

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Disclaimer:

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