# Safety Data Sheet

# Benzyl-2,3,4,5,6-$d_5$ Benzoate

## Section 1. Chemical product and company identifications

**Product code:** D-3479
**Chemical formula:** $C_{14}H_7D_5O_2$
**CAS:** 347840-01-1
**CAS (unlabelled):** 120-51-4
**Synonyms:** Benzoic Acid Benzyl Ester

**Supplier / Manufacturer:**

**C/D/N Isotopes Inc.**
88 Leacock Street
Pointe-Claire (Québec) H9R 1H1
Phone: 514-697-6254
Toll-Free (Canada & USA): 1-800-565-4696
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Website: www.cdnisotopes.com

**In case of emergency:**

**TOXYSCAN HOTLINE: 1-855-780-0599**

## Section 2. Hazards identifications

**Physical state:** Liquid
**Warning:** Harmful if swallowed.
**Routes of entry:** Inhalation, ingestion, skin and eyes

**GHS (Globally Harmonized System of Classification and Labelling of Chemicals):**

**GHS Classification:** - Acute toxicity, Oral (Category 4)

**GHS Label elements:** - Pictograms:

- Signal word: Warning

**Hazards statement:** - H302 Harmful if swallowed.

**Precautionary statement:** - P281 Use personal protective equipment as required.
- P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

## Section 3. Composition and information on ingredients

| Name | CAS | Concentration % |
|---|---|---|
| Benzyl-2,3,4,5,6-$d_5$ Benzoate | 347840-01-1 | > 98 |

## Section 4. First aid measures

**Eye contact:** Flush eyes with water as a precaution.
**Skin contact:** Wash off with soap and plenty of water. Consult a physician.
**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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## Section 5. Firefighting measures

**Flammability of the product:** Not flammable or combustible.
**Lower explosion limit:** No data available.
**Upper explosion limit:** No data available.
**Auto-ignition temperature:** 480 °C (896 °F)
**Flash point:** 158 °C (316 °F)
**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides.
**Firefighting media and instructions:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
**Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

## Section 6. Accidental release measures

**Personal precautions:** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
**Environmental precautions:** Do not let product enter drains.
**Methods for cleaning up:** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation.
**Storage:** Store at room temperature. Adequate ventilation.

## Section 8. Exposure Controls, Personal Protections

**Engineering controls:** Use mechanical exhaust or laboratory fumehood to avoid exposure.
**Eyes:** Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).
**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).
**Hands:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Section 9. Physical and chemical properties (unlabelled)

**Molecular weight:** 212.25 g/mol
**Physical status:** Liquid
**Color:** Colorless
**Odour:** Characteristic
**Density:** 1.118 g/cm$^3$
**Melting point:** 18 - 20 °C (64 - 68 °F)
**Boiling point:** 323 - 324 °C (613 - 615 °F)
**Vapour pressure:** 0.008 hPa (0.006 mmHg) at 25 °C (77 °F)
**Vapour density:** 7.3 (Air = 1)
**Partition coefficient (octanol/water):** log Pow: 3.97
**Water solubility:** Insoluble

## Section 10. Stability and reactivity

**Stability and reactivity:** Stable under recommended storage conditions.
**Incompatibility:** Strong oxidizing agents.
**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides.
**Reactivity conditions:** No data available.

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## Section 11. Toxicological information (unlabelled)

**Toxicological data:** Benzyl Benzoate

**Information on ingredients:**

| Name | CAS | $LD_{50}$ | $LC_{50}$ |
|---|---|---|---|
| Benzyl Benzoate | 120-51-4 | Oral - Rabbit - 1,900 mg/kg<br>Dermal - Rabbit - 4,000 mg/kg | No data available |

**Potential acute effects**

- **Eyes:** May cause eye irritation.
- **Skin:** Harmful if absorbed through skin. May cause skin irritation.
- **Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.
- **Ingestion:** Harmful if swallowed.

**Potential chronic effects**

- **Carcinogenic effects:** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- **Mutagenic effects:** No data available.
- **Teratogenic effects:** No data available.
- **Medical conditions aggravated by overexposure:** No data available.

## Section 12. Ecological information

**Ecological data:**

| Name | Results | Species | Period |
|---|---|---|---|
| Benzyl Benzoate | No data available | | |

**Effects on environment:** No data available.
**Mobility:** No data available.
**Environmental precautions:** No data available.
**Persistence and degradability:** No data available.
**Bioaccumulative potential:** No data available.

## Section 13. Disposal considerations

**Waste disposal:** Contact a licensed professional waste disposal service to dispose of this material.

## Section 14. Transportation information

**Classification DOT/IMDG/IATA label:**

**Shipping name:** Not dangerous goods
**UN number:** None
**Class:** None
**Packaging group:** None

**Additional information:** None

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## Section 15. Regulatory information

**UNITED STATES:**
**NFPA classification**

Health: 1
Flammable: 1
Reactivity: 0
Special conditions: None

**Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous**

**U.S. Federal regulations:**

**TSCA 8(b) inventory:** Benzyl Benzoate
**SARA 302/304/311/312 extremely hazardous substances:** Not Listed
**SARA 302/304 emergency planning and notification:** Not Listed
**SARA 302/304/311/312 hazardous chemicals:** Not Listed
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard:** Not Listed
**CWA (Clean Water Act) 307:** Not Listed
**CWA (Clean Water Act) 311:** Not Listed
**CAA (Clean Air Act) 112 accidental release prevention:** Not Listed
**CAA (Clean Air Act) 112 regulated flammable substances:** Not Listed
**CAA (Clean Air Act) 112 regulated toxic substances:** Not Listed

**State regulations:**

**DEA List I Chemicals (Precursor Chemicals):** Not Listed
**DEA List II Chemicals (Essential Chemicals):** Not Listed
**Substances in Massachusetts:** Not Listed
**Dangerous substances in New Jersey:** Not Listed
**New York – Dangerous substances with acute effects:** Not Listed
**Dangerous substances in Pennsylvania – right to know:** Not Listed

**WHMIS (Canada):**

Not WHMIS controlled

## Section 16. Additional information

**References:**

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

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**Elaborated by:** **Toxyscan Inc., 1-866-780-0599**
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