Benzyl Benzoate USP MSDS
Dear Customer,

This File Contains Both The ANSI Material Safety Data Sheet and The GHS Safety Data Sheet For The Same Product

Spectrum is currently transitioning all chemical product labeling from the ANSI\(^1\) format to the GHS\(^2\) format (see note below). In order to ensure that you receive complete labeling during the transition, we have included both the ANSI MSDS and the GHS SDS in a single file. The ANSI MSDS is given first, followed by the GHS SDS. Please use whichever matches the container label.

Why It Matters:

The complete precautionary labeling for this chemical consists of BOTH the label on the container AND the matching Material Safety Data Sheet (for ANSI labels) or Safety Data Sheet (for GHS labels). Both elements of the labeling [Label + (M)SDS] are written to be read and understood together, so as to provide complete precautionary information. It is intended for you to read and understood BOTH before handling or using the chemical.

Picking the Right One: 2 Easy Ways To Tell Whether Your Container Has an ANSI Label or a GHS Label

1) GHS labels: any pictogram displayed in the upper left-hand corner will be inside a red diamond.
   ANSI labels: pictograms, if present, will be inside individual black boxes.

2) GHS labels: on the bottom of the right-hand panel of the label, locate the Lot Number. Directly to the left will be a string of control characters, followed by a single letter.
   For GHS labels, the string of characters will end in “GHS:”

---

Corporate Offices
14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843

An ISO 9001:2008 Registered Company
1 American National Standards Institute
2 Globally Harmonized System for Hazard Communication

Sincerely,

Regulatory Affairs
MATERIAL SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Goggles, Protective Glasses, Apron, Gloves</td>
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</table>

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product code:</th>
<th>BE159</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>BENZYL BENZOATE, USP</td>
</tr>
<tr>
<td>Chemical Name:</td>
<td>Benzoic acid, benzyl ester</td>
</tr>
<tr>
<td>Synonyms:</td>
<td>Ascabin, Ascabiol, Benylate, Benzyl alcohol benzoic ester, Benzyl benzenecarboxylate, Benzyl benzoate, Benzylets, Benzyl phenylformate, Benzoic acid, phenylmethyl ester, Colebenz, Novoscabin, Peruscabin, Scabanca, Vanzoate, Venzonate</td>
</tr>
<tr>
<td>CAS #:</td>
<td>120-51-4</td>
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<tr>
<td>RTECS #:</td>
<td>DG4200000</td>
</tr>
<tr>
<td>Formula:</td>
<td>C14-H12-O2</td>
</tr>
<tr>
<td>CI#:</td>
<td>Not available</td>
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<tr>
<td>Supplier:</td>
<td>Spectrum Chemicals and Laboratory Products, Inc. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000</td>
</tr>
<tr>
<td>Order Online At:</td>
<td><a href="https://www.spectrumchemical.com">https://www.spectrumchemical.com</a></td>
</tr>
<tr>
<td>Emergency Telephone Number:</td>
<td>CHEMTREC: 1-800-424-9300</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Ibad Tirmiz (East Coast)</td>
</tr>
<tr>
<td>Contact Person:</td>
<td>Martin LaBenz (West Coast)</td>
</tr>
</tbody>
</table>
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!
May be harmful if swallowed
May cause skin and eye irritation
May cause irritation of respiratory tract

Physical state: Liquid.
Appearance: No information available
Color: Colorless.

OSHA Regulatory Status
This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:
Skin. Ingestion.

Acute Potential Health Effects:

Skin Contact:
May cause skin irritation. If absorbed through skin it may cause systemic effects with symptoms similar to those of ingestion.

Eye Contact:
May cause eye irritation.

Inhalation:
May cause irritation of respiratory tract.

Ingestion:
May be harmful if swallowed. May cause nausea. May cause vomiting. May cause central nervous system effects. May affect respiration.

Chronic Potential Health Effects:

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogen Status:</th>
</tr>
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<tbody>
<tr>
<td>Benzyl Benzoate</td>
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<tr>
<td>120-51-4 (100)</td>
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</table>

Target Organs: No information available
Mutagenic Effects: No information available
Teratogenic Effects: No information available
Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

Product code: BE159
Product name: BENZYL BENZOATE, USP
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Benzoate</td>
<td>120-51-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**General Advice:** Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

**Eye Contact:** Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Notes to Physician:** Treat symptomatically

5. FIRE-FIGHTING MEASURES

**Flammable Properties**

**Flashpoint (°C/°F):** 148 °C/298 °F

**Flash Point Tested according to:** CC

**Lower Explosion Limit (%):** No information available

**Upper Explosion Limit (%):** No information available

**Autoignition Temperature (°C/°F):** 480 °C/896 °F

**Suitable Extinguishing Media:** Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Hazardous Combustion Products:** Carbon oxides

**Specific hazards:** May be combustible at high temperatures. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Specific Methods:** No information available.
6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

Environmental Precautions:
Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Cleaning Up:
Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Protect from light. Sensitive to light. Store in light-resistant containers. Store at room temperature in the original container. Store under nitrogen. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:
Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.
Skin and body protection: Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection: Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

National occupational exposure limits

**United States**

U.S Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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**Canada**

Canada Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
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</table>

**Australia and Mexico**

Occupational Exposure Limits for Australia and Mexico: Not determined

<table>
<thead>
<tr>
<th>Components</th>
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<tbody>
<tr>
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</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Liquid.

**Odor:** Slight. Pleasant. Aromatic.

**Flash point (°C):** 148

**Autoignition Temperature (°C/°F):** 480 °C/896 °F

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

**Evaporation rate:** No information available

**Odor threshold (ppm):** No information available

**Solubility:**
- Insoluble in water
- Insoluble in Glycerol
- Soluble in Acetone
- Soluble in Benzene

**Appearance:** No information available

**Taste**
- Sharp. Burning.

**Lower Explosion Limit (%):** No information available

**Upper Explosion Limit (%):** No information available

**Melting point/range(°C/°F):** 21 °C/69.8 °F

**Density (g/cm3):** 1.118 @ 25 °C

**Boiling point/range(°C/°F):** 323-324 °C/613.4-615.2 °F

**Specific gravity:** 1.118 @ 25 °C

**Bulk density:** No information available

**Vapor density:** 7.31

**Partition coefficient (n-octanol/water):** 3.97

**Molecular/Formula weight:** 212.24

**Color:** Colorless.

**Vapor pressure @ 20°C (kPa):**
- < 0.1 @ 20 °C
- 0.00002986 @ 25 °C

**Miscibility:**
- Miscible with alcohol
- Miscible with Chloroform
- Miscible with Ether

**Partition coefficient (n-octanol/water):** 3.97

**Miscibility:**
- Miscible with alcohol
- Miscible with Chloroform
- Miscible with Ether

Product code: BE159

Product name: BENZYL BENZOATE, USP
10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions


Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Possibility of Hazardous Reactions: No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Benzyl Benzoate - 120-51-4

LD50/oral/rat = 500 mg/kg Oral LD50 Rat (LOLI; IUCLID Dataset by European Chemicals Bureau)
>1000 mg/kg (RTECS)
LD50/oral/mouse = 1400 mg/kg (RTECS; IUCLID Dataset by European Chemicals Bureau)
LD50/dermal/rat = 4000 mg/kg Dermal LD50 Rat
LD50/dermal/rabbit = 4000 mg/kg Dermal LD50 Rabbit
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 1680 mg/kg Oral LD50 Rabbit
1 ml/kg Oral LD50 Guinea pig
>22440 mg/kg Oral LD50 Dog
2240 mg/kg Oral LD50 Cat

Product Information

LC50/inhalation/rat No information available
LC50/inhalation/mouse No information available
LD50/dermal/rabbit 4000mg/kg
LD50/dermal/rat 4000mg/kg
LD50/oral/mouse = 1400
LD50/oral/rat = 500mg/kg

Local Effects

Skin irritation: May cause skin irritation. It may be absorbed through the skin. If absorbed through the skin in very large (lethal) amounts, it may cause systemic effects similar to that of ingestion. Symptoms may include excessive salivation, tremors, muscular incoordination, convulsions and respiratory failure.

Eye irritation: May cause eye irritation.

Inhalation: May cause irritation of respiratory tract.
Ingestion: May be harmful if swallowed. May cause nausea. May cause vomiting. May affect behavior/central nervous system (ataxia). May affect behavior/central nervous system (muscle weakness, convulsions). May affect behavior/central nervous system (tremors). May affect respiration (difficult or labored breathing resulting in shortness of breath). May cause respiratory paralysis/respiratory failure.

Sensitization: No information available

Chronic Toxicity

Chronic Toxicity No information available

Carcinogenic effects: No information available

<table>
<thead>
<tr>
<th>Components</th>
<th>NTP</th>
<th>IARC</th>
<th>OSHA HCS - Carcinogens</th>
<th>ACGIH - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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Mutagenic Effects: No information available

Reproductive Effects: No information available

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and the ecotoxicology of similar products

Ecotoxicity effects: Aquatic environment.

Aquatic toxicity:

*Benzyl Benzoate - 120-51-4*

Freshwater Fish Species Data: 2.3-3.9 mg/l LC50 96h (Brachydanio rerio (zebra fish))

Water Flea Data: 3.09 mg/l EC50 48 h (Daphnia magna)

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
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<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Product code: BE159 Product name: BENZYL BENZOATE, USP
14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated for Transportation unless all or part of the transportation is by vessel (applies to bulk and non-bulk shipments). For bulk shipments by ground only, it may be transported as a marine pollutant (regulated as UN3082 Class 9 “Environmentally Hazardous Substances, liquid”) because it meets the requirement of Chapter 2.9 of the IMDG code, but it is not mandatory by DOT because it is not on the DOT Marine Pollutant list in 49CFR Appendix B to 172.101.

Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: None
Subsidiary Risk: Not applicable
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Packing Group: No information available
Subsidiary Risk: No information available
Description: No information available

ADR

UN-No: UN3082
(provided <5 liters for liquids and < 5 kilogram for solids - per single packagings or combination packagings per inner packaging)

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG

UN-No: UN3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Description: No information available
IMDG Page: No information available
Marine Pollutant: Marine Pollutant
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID

UN-No: UN3082
(provided <5 liters for liquids and < 5 kilogram for solids - per single packagings or combination packagings per inner packaging)

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)
Hazard Class: 9

Product code: BE159  Product name: BENZYL BENZOATE, USP
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

IATA
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>Philippines (PICCS)</th>
<th>KOREA KECL</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
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<td>Present</td>
<td>Present KE-02782</td>
<td>Present (3)-1389</td>
<td>Present</td>
<td>Present</td>
<td>Present 204-402-9</td>
</tr>
</tbody>
</table>

U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
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</thead>
<tbody>
<tr>
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<td>Not Listed</td>
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</table>

CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
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<tbody>
<tr>
<td>Benzyl Benzoate</td>
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<td>None</td>
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</table>

U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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</thead>
<tbody>
<tr>
<td>Benzyl Benzoate</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
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</tbody>
</table>
Canada

WHMIS hazard class: D2B Toxic materials

Benzyl Benzoate D2B

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

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<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
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<tbody>
<tr>
<td>Benzyl Benzoate</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl Benzoate</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

EU Classification

R-phrase(s)
R22 - Harmful if swallowed.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s)
S2 - Keep out of the reach of children.
S25 - Avoid contact with eyes.
S46 - If swallowed, seek medical advice immediately and show this container or label.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<tr>
<td>Benzyl Benzoate</td>
<td>Xn; R22</td>
<td>No information</td>
<td>S2  S25  S46  S61</td>
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<tr>
<td></td>
<td>N; R51-53</td>
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</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.
N - Dangerous for the environment.

16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.
All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.
SAFETY DATA SHEET

1. IDENTIFICATION

Product identifier

Product code: BE159
Product Name: BENZYL BENZOATE, USP

Other means of identification

Synonyms:
- Ascabin
- Ascabiol
- Benylate
- Benzyl alcohol benzoic ester
- Benzyl benzenecarboxylate
- Benzyl benzoate
- Benzylets
- Benzyl phenyformate
- Benzoic acid, phenylmethyl ester
- Colebenz
- Novoscabin
- Peruscabin
- Scabanca
- Vanzoate
- Venzonate

CAS #: 120-51-4
RTECS #: DG4200000
Cf#: Not available

Recommended use of the chemical and restrictions on use

Uses advised against: No information available

Supplier:
Spectrum Chemicals and Laboratory Products, Inc.
14422 South San Pedro St.
Gardena, CA  90248
(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone number
Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral
Category 4
Label elements

Warning

Hazard statements
Harmful if swallowed

Hazard statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Hazard statements - Response
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Hazard statements - Disposal
Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
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</thead>
<tbody>
<tr>
<td>Benzyl Benzoate</td>
<td>120-51-4</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

First aid measures

General Advice:
Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126)

Skin Contact:
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops.

Eye Contact:
Flush eye with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.

Inhalation:
Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Product code: BE159

Product name: BENZYL BENZOATE, USP
Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed


Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically

Protection of first-aiders

First-Aiders: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon oxides

Specific hazards: May be combustible at high temperatures. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated.

Special Protective Actions for Firefighters

Specific Methods: No information available.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth), then place in a suitable chemical waste container.

Methods for cleaning up: Use appropriate tools to put the spilled material in a suitable chemical waste disposal container.

7. HANDLING AND STORAGE

Product code: BE159

Product name: BENZYL BENZOATE, USP
7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:
Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice:
Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors or spray mist. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Protect from light. Sensitive to light. Store in light-resistant containers. Store at room temperature in the original container. Store under nitrogen. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

U.S Occupational Exposure Limits: Not determined

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
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Canada

Canada Occupational Exposure Limits: Not determined

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Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

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<th>Mexico</th>
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</thead>
<tbody>
<tr>
<td>Benzyl Benzoate 120-51-4</td>
<td>None</td>
<td>None</td>
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</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.

Product code: BE159

Product name: BENZYL BENZOATE, USP
**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient. Use a vapor respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapor, inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
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<td>Melting point/range(°C/°F):</td>
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<tr>
<td>Calculation</td>
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<td>Decomposition temperature(°C/°F):</td>
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</tr>
<tr>
<td>Formula</td>
<td>C14-H12-O2</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Reactivity**
Reactive with oxidizing agents

**Chemical stability**
Stability: Stable at normal conditions

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Ignition sources. Exposure to light. Exposure to air.

**Product code:** BE159  
**Product name:** BENZYL BENZOATE, USP
Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:
Skin. Ingestion.

Acute Toxicity

Component Information

Benzyl Benzoate - 120-51-4

LD50/oral/rat = 500 mg/kg Oral LD50 Rat (LOLI; IUCLID Dataset by European Chemicals Bureau)
>1000 mg/kg (RTECS)
LD50/oral/mouse = 1400 mg/kg (RTECS; IUCLID Dataset by European Chemicals Bureau)
LD50/dermal/rabbit = 4000 mg/kg Dermal LD50 Rabbit
LD50/dermal/rat = 4000 mg/kg Dermal LD50 Rat
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50 information = 1680 mg/kg Oral LD50 Rabbit
1 ml/kg Oral LD50 Guinea pig
>22440 mg/kg Oral LD50 Dog
2240 mg/kg Oral LD50 Cat

Product Information

LD50/oral/rat =
VALUE- Acute Tox Oral = 500mg/kg

LD50/oral/mouse =
Value - Acute Tox Oral = 1400mg/kg

LD50/dermal/rabbit
VALUE-Acute Tox Dermal = 4000mg/kg

LD50/dermal/rat
VALUE -Acute Tox Dermal = 4000mg/kg

LC50/inhalation/rat
VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse
VALUE-Vapor = No information available

Product code: BE159
Product name: BENZYL BENZOATE, USP
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

Symptoms

Skin Contact: May cause skin irritation. If absorbed through skin it may cause systemic effects with symptoms similar to those of ingestion.

Eye Contact: May cause eye irritation.

Inhalation Irritating to respiratory system
Ingestion Harmful if swallowed
May cause nausea
May cause vomiting
May affect behavior/central nervous system (ataxia)
May affect behavior/central nervous system (muscle weakness, convulsions)
May affect behavior/central nervous system (tremors)
May affect respiration (difficult or labored breathing resulting in shortness of breath)
May cause respiratory paralysis/respiratory failure

Aspiration hazard No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity No information available
Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: No information available.

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia - Prohibited Carcinogenic Substances</th>
<th>Australia - Notifiable Carcinogenic Substances</th>
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<td>Not listed</td>
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</tbody>
</table>

Reproductive toxicity No data is available

Reproductive Effects: No information available
Developmental Effects: No information available
Teratogenic Effects: No information available

Specific Target Organ Toxicity

STOT - single exposure No information available
STOT - repeated exposure No information available
Target Organs: No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects: Aquatic environment.

Product code: BE159
Product name: BENZYL BENZOATE, USP
13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:
Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<tbody>
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<td>Benzyl Benzoate</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated for Transportation unless all or part of the transportation is by vessel (applies to bulk and non-bulk shipments). For bulk shipments by ground only, it may be transported as a marine pollutant (regulated as UN3082 Class 9 "Environmentally Hazardous Substances, liquid") because it meets the requirement of Chapter 2.9 of the IMDG code, but it is not mandatory by DOT because it is not on the DOT Marine Pollutant list in 49CFR Appendix B to 172.101.

Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: Not applicable
Packing Group: None
Marine Pollutant: No data available
ERG No: No information available
DOT RQ (lbs): No information available

TDG (Canada)

UN-No: Not Regulated
Proper Shipping Name: No information available
Hazard Class: No information available
Subsidiary Risk: No information available
Packing Group: No information available
Description: No information available

ADR

UN-No: UN3082
(exception <5 liters for liquids and < 5 kilogram for solids - per single package or combination package per inner packaging)

Product code: BE159  Product name: BENZYL BENZOATE, USP
14. TRANSPORT INFORMATION

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: No information available
IMDG Page: No information available
Marine Pollutant: Marine Pollutant
EMS: F-A
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

ICAO
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

IATA
UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: No information available

15. REGULATORY INFORMATION

International Inventories

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<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
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Product code: BE159  Product name: BENZYL BENZOATE, USP
U.S. Regulations


Chemicals Known to the State of California to Cause Cancer:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
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CERCLA/SARA

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<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
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U.S. TSCA

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<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
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<tbody>
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<td>Not Applicable</td>
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Canada

WHMIS hazard class:
D2B  Toxic materials

Benzyl Benzoate
D2B

Canada Controlled Products Regulation:
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

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<th>Components</th>
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<tbody>
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</table>

EU Classification

R-phrase(s)
R22 - Harmful if swallowed.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Product code: BE159  Product name: BENZYL BENZOATE, USP
**S-phrase(s)**
S2 - Keep out of the reach of children.
S25 - Avoid contact with eyes.
S46 - If swallowed, seek medical advice immediately and show this container or label.
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

<table>
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<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
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<tr>
<td></td>
<td>N; R51-53</td>
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</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

**Indication of danger:**
Xn - Harmful.
N - Dangerous for the environment.

16. OTHER INFORMATION
16. OTHER INFORMATION

Preparation Date: 5/10/2013
Revision Date: 12/05/2014
Prepared by: Sonia Owen

Disclaimer:
All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet

Contact Distributor
www.qualityexcipients.com
info@qualityexcipients.com

Product code: BE159
Product name: BENZYL BENZOATE, USP