

SAFETY DATA SHEET

Preparation Date: 5/10/2013

Revision Date: 10/2/2018

Revision Number: G4

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
 Benzylets
 Benzyl phenylformate
 Benzoic acid, phenylmethyl ester
 Colebenz
 Novoscabin
 Peruscabin
 Scabanca
 Vanzoate
 Venzonate

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

Recommended use of the chemical and restrictions on use

Recommended use: Plasticizer for cellulose. Fixative. Dye carrier.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
 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 according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Acute toxicity - Oral	Category 4
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Label elements

Warning

Hazard statements
Harmful if swallowed



Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards

Toxic to aquatic life with long lasting effects
May be harmful in contact with skin

Precautionary Statements - Prevention

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

Precautionary Statements - Response

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Benzyl Benzoate	120-51-4	100

4. FIRST AID MEASURES

First aid measures

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eyes 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.

Most important symptoms and effects, both acute and delayed

Symptoms
May cause eye/skin irritation
Central nervous system effects
Ataxia
Weakness
Convulsions
Tremors
Dyspnea (Difficulty breathing and shortness of breath)
Respiratory paralysis or failure
Nausea
Vomiting

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: 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 Monoxide, Carbon Dioxide.

Specific hazards: May be combustible at high temperatures. May be ignited by heat, sparks or flames.

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. Keep people away from and upwind of spill/leak. 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. Prevent product from entering drains. 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. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. All equipment used when handling the product must be grounded. 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:

Strong oxidizing agents
Strong reducing agents
Alkalis
Bases

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Benzyl Benzoate	120-51-4	None	None	None	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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			Columbia		
Benzyl Benzoate	120-51-4	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Benzyl Benzoate	120-51-4	None	None

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 or 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:

Liquid

Appearance:

Clear. Oily.

Color:

Colorless.

Odor:

Slight. Pleasant. Aromatic.

Taste

Sharp. Burning.

Formula:

C14-H12-O2

Molecular/Formula weight (g/mole):

212.24

Flammability:

No information available

Flashpoint (°C/°F):

148°C/298°F

Flash Point Tested according to:

CC

Autoignition Temperature (°C/°F):

480°C/896°F

Lower Explosion Limit (%):

No information available

Upper Explosion Limit (%):

No information available

Melting point/range(°C/°F):

18 - 20°C/64 - 68°F

Decomposition temperature(°C/°F):

No information available

Boiling point/range(°C/°F):

323-324°C/613.4-615.2°F

Bulk density:

No information available

Density (g/cm3):

1.1121 @ 25 °C

Specific gravity:

1.118 @ 25 °C

pH:

No information available

Vapor pressure @ 20°C (kPa):

< 0.1 @ 20 °C

0.00002986 @ 25 °C

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Evaporation rate:
No information available

Vapor density:
7.31

VOC content (g/L):
No information available

Odor threshold (ppm):
No information available

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

Viscosity:
No information available

Miscibility:
Miscible with alcohol
Miscible with Chloroform
Miscible with Ether

Solubility:
Insoluble in water
Insoluble in Glycerin
Soluble in Acetone
Soluble in Benzene

10. STABILITY AND REACTIVITY

Reactivity

Reactive with oxidizing agents

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

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

Incompatible Materials: Strong oxidizing agents
Strong reducing agents
Alkalis
Bases

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

BenzyI Benzoate

CAS-No. 120-51-4

LD50/oral/rat = 500 mg/kg Oral LD50 Rat (LOLI; IUCLID Dataset by European Chemicals Bureau); 2800 mg/kg (RTECS)

LD50/oral/mouse = 1400 mg/kg (RTECS; IUCLID Dataset by European Chemicals Bureau)

LD50/dermal/rabbit = 4000 mg/kg Dermal LD50Rabbit

LD50/dermal/rat = = 4000 mg/kg Dermal LD50
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = 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 = 500 mg/kg

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

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

LD50/dermal/rat
VALUE -Acute Tox Dermal = 4000 mg/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
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 May cause irritation of respiratory tract.

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, muscle twitching). 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.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Benzyl Benzoate	120-51-4	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

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.

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)

Persistence and degradability: No information available

Bioaccumulative potential: No information available.

Mobility: No information available.

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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Benzyl Benzoate	120-51-4	None	None	None	None

14. TRANSPORT INFORMATION

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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 Class: No information available
Packing group: No information available
Emergency Response Guide Number: No information available
Marine Pollutant: No data available
DOT RQ (lbs): No information available
Special Provisions: No Information available
Symbol(s): No information available
Description: No information available

TDG (Canada)

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

ADR

UN-No: UN3082
(exception <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.
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Special Provisions: 274, 335, 375, 601
Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE), 9, III

IMO / IMDG

UN-No: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant: Marine Pollutant
EMS: F-A
Special Provisions: 274, 335, 969
Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE), 9, III, Marine pollutant

RID

UN-No: UN3082
(exception <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.

Hazard Class: 9

Subsidiary Risk: No information available

Packing Group: III

Special Provisions 274, 335, 375, 601

Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (BENZYL BENZOATE), 9, III

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: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate), 9, III

Special Provisions A97, A158, A197

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

ERG Code: 9L

Special Provisions No information available

Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Benzyl Benzoate), 9, III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
<i>Benzyl Benzoate</i>	120-51-4	PresentACTIVE	Present KE-02782	Present	Present (3)-1389	Present	Present	Present 204-402-9

U.S. Regulations*Benzyl Benzoate***FDA - Direct Food Additives** 21 CFR 172.515**FDA - 21 CFR - Total Food Additives** 172.515, 175.105

- List Sourced from EAFUS

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**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)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:

Product code: BE159**Product name:** BENZYL BENZOATE,
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Benzyl Benzoate	120-51-4	Not Listed	Not Listed	Not Listed	Not Listed
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CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Benzyl Benzoate	120-51-4	None	None	None	None	None

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Benzyl Benzoate	120-51-4	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component
Benzyl Benzoate
120-51-4 (100)

WHMIS 2015 Hazard Classification
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Benzyl Benzoate	120-51-4	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Benzyl Benzoate	120-51-4	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Benzyl Benzoate	120-51-4	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Benzyl Benzoate	120-51-4	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed. (Minimum classification); Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.607-085-00-9

EU - CLP (1272/2008)

R-phrases(s)

R22 - Harmful if swallowed.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S -phrase(s)

S 2 - 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.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Benzyl Benzoate	120-51-4	Xn; R22 N; R51-53	No information	S2 S25 S46 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC**Indication of danger:**

Xn - Harmful.

N - Dangerous for the environment.

Xn



N

**16. OTHER INFORMATION**

Preparation Date: 5/10/2013
Revision Date: 10/2/2018
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