

8/30/05



SIGMA-ALDRICH

Material Safety Data Sheet

Date Printed: 06/15/2005
Date Updated: 04/06/2004
Version 1.30

Section 1 - Product and Company Information

Product Name	Benzyl benzoate, minimum 99.0%		
Product Number	B6630		
Brand	Sigma Chemical		
Company	Sigma-Aldrich		
Street Address	3050 Spruce Street		
City, State, Zip, Country	SAINT LOUIS, MO 63103 US		
Technical Phone:	314 771 5765	Emergency Phone:	414 273 3850 Ext. 5996
Fax:	800 325 5052		

Section 2 - Composition/Information on Ingredient

<u>Substance Name</u>	<u>CAS #</u>	<u>SARA 313</u>	<u>EC no</u>	<u>Annex I Index Number</u>
BENZYL BENZOATE	120-51-4	No	204-402-9	607-085-00-9

Formula C14H12O2
Synonyms Ascabin, Ascabiol, Benylate, Benzoic acid, phenylmethyl ester, Benzyl alcohol benzoic ester, Benzyl benzenecarboxylate, Benzyl benzoate, Benzylester kyseliny benzoove (Czech), Benzylets, Benzyl phenylformate, Colebenz, Novoscabin, Peruscabin, Scabanca, Vanzoate, Venzonate

Section 3 - Hazards Identification

Emergency Overview
Harmful.
Harmful if swallowed. Irritating to eyes, respiratory system and skin.

HMIS Rating
Health: 2 Flammability: 0 Reactivity: 0

NFPA Rating
Health: 2 Flammability: 0 Reactivity: 0

For additional information on toxicity, please refer to Section 11.

Section 4 - First Aid Measures

Oral Exposure
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

Dermal Exposure
In case of contact, immediately wash skin with soap and copious amounts of water.

Eye Exposure

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

Section 5 - Fire Fighting Measures

Flash Point: 316.4 °F 158 °C

Autoignition Temp: 480 °C

Extinguishing Media

Suitable

Carbon dioxide, dry chemical powder, or appropriate foam.

Firefighting

Protective Equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s)

Emits toxic fumes under fire conditions.

Section 6 - Accidental Release Measures

Procedure to be Followed in Case of Leak or Spill

Evacuate area.

Procedure(s) of Personal Precaution(s)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

Methods for Cleaning Up

Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7 - Handling and Storage

Handling

User Exposure

Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

Storage

Suitable

Keep tightly closed.

Section 8 - Exposure Controls / PPE

Engineering Controls

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment

Respiratory

Government approved respirator.

Hand

Compatible chemical-resistant gloves.

Eye

Chemical safety goggles.

General Hygiene Measures
Wash thoroughly after handling.

Section 9 - Physical/Chemical Properties

Appearance	Color
Physical State Clear liquid	Colorless
Molecular Weight:	212.25 AMU
pH	N/A
BP/BP Range	323 - 324 °C
MP/MP Range	17 °C
Freezing Point	N/A
Vapor Pressure	1 mmHg
Vapor Density	N/A
Saturated Vapor Conc.	N/A
SG/Density	1.118 g/cm ³
Bulk Density	N/A
Odor Threshold	N/A
Volatile%	N/A
VOC Content	N/A
Water Content	N/A
Solvent Content	N/A
Evaporation Rate	N/A
Viscosity	N/A
Partition Coefficient	Log Kow: 4.00
Decomposition Temp.	N/A
Flash Point °F	316.4 °F
Flash Point °C	158 °C
Explosion Limits	N/A
Flammability	N/A
Autoignition Temp	480 °C
Refractive Index	1.569
Solubility	N/A

N/A = not available

Section 10 - Stability and Reactivity

Stability
Stable
Stable.
Materials to Avoid
Strong oxidizing agents.

Hazardous Decomposition Products
Hazardous Decomposition Products
Carbon monoxide, Carbon dioxide.

Method: closed cup
Method: closed cup

125 °C

Hazardous Polymerization
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

Route of Exposure
Skin Contact
Causes skin irritation.
Skin Absorption
May be harmful if absorbed through the skin.
Eye Contact
Causes eye irritation.
Inhalation
May be harmful if inhaled.
Ingestion
Harmful if swallowed.

Signs and Symptoms of Exposure
Exposure can cause: Cardiovascular effects. Muscle cramps/spasms. Ataxia.

RTECS Number: DG4200000

Toxicity Data

Oral - Rat: 1700 UL/KG (LD50)
Skin - Rat: 4 ML/KG (LD50)
Oral - Mouse: 1400 UL/KG (LD50)
Intraperitoneal - Mouse: >500 MG/KG (LD50)
Oral - Dog: > 22440 mg/kg (LD50)
Oral - Cat: 2240 mg/kg (LD50)
Remarks: Behavioral:Tremor.
Behavioral:Muscle weakness.
Gastrointestinal:Changes in structure or function of salivary glands.
Oral - Rabbit: 1680 mg/kg (LD50)
Skin - Rabbit: 4000 mg/kg (LD50)
Oral - Guinea pig: 1 ML/KG (LD50)

Section 12 - Ecological Information

Acute Ecotoxicity Tests

Test Type	Value:
LC0 Fish	0.29 mg/l

Section 13 - Disposal Considerations

Appropriate Method of Disposal of Substance or Preparation
Contact a licensed professional waste disposal service to dispose of this material.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Observe all federal, state, and local environmental regulations.

Section 14 - Transport Information

DOT
Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

Section 15 - Regulatory Information

EU Directives Classification

Symbol of Danger: Xn

Indication of Danger

Harmful.

Risk Statements R: 22

Harmful if swallowed.

Safety Statements S: 25

Avoid contact with eyes.

US Classification and Label Text

Indication of Danger

Harmful.

Risk Statements

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Safety Statements

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.

United States Regulatory Information

SARA Listed: No

TSCA Inventory Item: Yes

Canada Regulatory Information

WHMIS Classification

This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Section 16 - Other Information

Disclaimer

For R&D use only. Not for drug, household or other uses.

Warranty

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. Sigma-Aldrich Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. Copyright 2005 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.