

## Material Safety Data Sheet

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Version 1.3  
Regulation (EC) No 1907/2006

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1 - Product and Company Information

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Product Name BENZYL BENZOATE  
Product Number 12390  
  
Company Sigma-Aldrich Company Ltd.  
The Old Brickyard  
New Road, Gillingham SP8 4XT  
United Kingdom  
  
Technical Phone # 44-(0)-1747-833000  
Fax 44-(0)-1747-833313  
E-mail Address eurtechserv@sial.com  
Emergency Phone # 44-(0)-1747-833100

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2 - Hazards Identification

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SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Harmful if swallowed.

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3 - Composition/Information on Ingredients

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Product Name	CAS #	EC no	Annex I Index Number
BENZYL BENZOATE	120-51-4	204-402-9	607-085-00-9

Formula C14H12O2  
Molecular Weight 212.25 AMU  
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

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4 - First Aid Measures

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## AFTER INHALATION

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

## AFTER SKIN CONTACT

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

## AFTER EYE CONTACT

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.

## AFTER INGESTION

If swallowed, wash out mouth with water provided person is

conscious. Call a physician.

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## 5 - Fire Fighting Measures

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### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

### SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

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

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## 6 - Accidental Release Measures

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### PERSONAL PRECAUTION PROCEDURES 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.

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## 7 - Handling and Storage

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### HANDLING

Directions for Safe Handling: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of Storage: Keep tightly closed.

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## 8 - Exposure Controls / Personal Protection

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### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type AXBEK (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.  
Hand Protection: Compatible chemical-resistant gloves.  
Eye Protection: Chemical safety goggles.

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## 9 - Physical and Chemical Properties

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Appearance

Physical State: Clear liquid  
Color: Colorless

Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	323.0 - 324.0 °C	
MP/MP Range	17 °C	
Flash Point	158 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	480 °C	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	N/A	
Vapor Pressure	1 mmHg	125 °C
SG/Density	1.118 g/cm <sup>3</sup>	
Partition Coefficient	Log Kow: 4	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

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## 10 - Stability and Reactivity

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### STABILITY

Stable: Stable.

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

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## 11 - Toxicological Information

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RTECS NUMBER: DG4200000

### ACUTE TOXICITY

LD50  
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  
Remarks: Behavioral:Muscle weakness. Gastrointestinal:Changes in structure or function of salivary glands. Behavioral:Tremor.

LD50  
Oral  
Rabbit  
1680 mg/kg

LD50  
Skin  
Rabbit  
4000 mg/kg

LD50  
Oral  
Guinea pig  
1 ML/KG

#### SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Cardiovascular effects. Muscle cramps/spasms. Ataxia.

#### 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. Material is irritating to mucous membranes and upper respiratory tract.  
Ingestion: Harmful if swallowed.

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#### 12 - Ecological Information

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#### ECOTOXICOLOGICAL EFFECTS

Test Type: LC0 Fish  
Value: 0.29 mg/l

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#### 13 - Disposal Considerations

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#### SUBSTANCE DISPOSAL

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.

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#### 14 - Transport Information

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RID/ADR

Non-hazardous for road transport.

IMDG

Non-hazardous for sea transport.

IATA

Non-hazardous for air transport.

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## 15 - Regulatory Information

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### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

ANNEX I INDEX NUMBER: 607-085-00-9

INDICATION OF DANGER: Xn

Harmful.

R-PHRASES: 22

Harmful if swallowed.

S-PHRASES: 25

Avoid contact with eyes.

### COUNTRY SPECIFIC INFORMATION

Germany

WGK: 2

ID-Number: 5203

Classification according to appendix 3.

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## 16 - Other Information

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### 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 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only.

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