Safety data sheet

MERCK Schuchardt

Dr. Theodor Schuchardt & Co.

According to EC Directive 91/155/EEC

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Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No.:

818701

Product name:

Benzyl benzoate for synthesis

Manufacturer/supplier identification

Company:

Dr. Theodor Schuchardt & Co * 85662 Hohenbrunn * Germany *

Tel: +49 8102/802-0

Emergency telephone No .:

Please contact the regional Merck representation

in your country.

Composition/information on ingredients

Synonyms

Benzoic acid benzyl ester

CAS-No.:

120-51-4

EC-Index-No.:

607-085-00-9

M:

212.25 g/mol

EC-No.:

204-402-9

Formula Hill:

 $C_{14}H_{12}O_2$

Chemical formula: C₆H₅COOCH₂C₆H₅

Hazards identification

Harmful if swallowed.

First aid measures

After inhalation: fresh air. Consult doctor if feeling unwell.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Summon eye specialist if necessary.

After swallowing: make victim drink plenty of water, induce vomiting, summon doctor.

Fire-fighting measures

Suitable extinguishing media:

Powder, foam.

Special risks:

Combustible. Vapours heavier than air. Formation of explosible mixtures possible with air. Keep away from sources of ignition.

Special protective equipment for fire fighting:

When large amounts of substance are released, work only with self-enclosed respirators and suitable chemical-resistant protective clothing.

Other information:

Prevent fire-fighting water from entering surface water or groundwater.

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Accidental release measures

Person-related precautionary measures:

Do not inhale vapours/aerosols. Avoid substance contact.

Environmental-protection measures:

Do not allow to enter sewerage system.

Procedures for cleaning / absorption:

Take up with liquid-absorbent material (e.g. Chemizorb®). Forward for disposal. Clean up affected

7. Handling and storage

Handling:

No further requirements.

Storage:

Tightly closed. At +15°C to +25°C.

8. Exposure controls/personal protection

Personal protective equipment:

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Respiratory protection:

required when vapours/aerosols are generated.

Eye protection:

required

Hand protection:

required

Industrial hygiene:

Change contaminated clothing. Wash hands after working with substance.

9. Physical and chemical properties

Form:

liquid

Colour:

colourless

Odour:

weakly aromatic

pH value

not available

(25 °C)

10.9 mPa*s

Viscosity dynamic Melting point

21 $^{\circ}\mathrm{C}$

Boiling point

 $^{\circ}C$ 324

Ignition temperature

480 °C

Explosion limits

158

Flash point

not available

1.12

lower

upper

not available

Vapour pressure

(20 °C)

°C

(closed cup)

Density

(20 °C)

< 0.1 g/cm³

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Solubility in

water ethanol methanol (20 °C) (20 °C) (20 °C) insoluble freely soluble freely soluble

log P(oct):

4.00

10. Stability and reactivity

Conditions to be avoided

Heating.

Substances to be avoided

strong oxidizing agents.

Hazardous decomposition products

no information available

Further information

solvent;

incompatible with light metals, metal alloys, various plastics. Explosible with air in a vaporous/gaseous state when heated.

11. Toxicological information

Acute toxicity

 LD_{50} (oral, rat): 1900 mg/kg. LD_{50} (dermal, rabbit): 4000 mg/kg.

Subacute to chronic toxicity

Sensitization:

Experience in man: negative.

Further toxicological information

After inhalation of vapours: absorption. After skin contact: Slight irritations. After eye contact: Slight irritations. After swallowing: absorption.

Systemic effects: cardiovascular disorders, agitation, spasms, ataxia (impaired locomotor

coordination).

Further data

The product should be handled with the care usual when dealing with chemicals.

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12. Ecological information

Biologic degradation:

The product is readily biodegradable according to the OECD criteria.

Behavior in environmental compartments:

log P(oct): 4.00.

An appreciable bioaccumulation potential is to be expected (log P(o/w) > 3),

Ecotoxic effects:

Biological effects: Toxic for aquatic organisms.

Fish toxicity: fish LC₀: 0.29 mg/l;

Bacterial toxicity: bacteria EC₅₀: >10000 mg/l;

Further ecologic data:

Do not allow to enter waters, waste water, or soil!

13. Disposal considerations

Product:

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Packaging:

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC Directives

Symbol:

Harmful

R-phrases:

22

Harmful if swallowed.

S-phrases:

25

Avoid contact with eyes.

EC-No.:

204-402-9

EC label

16. Other information

Reason for alteration

General update.

Regional representation:

This information is given on the authorised Safety Data Sheet for your country.

Merck Safety Data Sheet According to EC Directive 91/155/EEC Catalogue No.: 818701 Product name: Benzyl benzoate for synthesis The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.