

## Chemical Safety Data Sheet MSDS / SDS

## Benzyl acetate SDS

Revision Date:2024-04-25 Revision Number:1

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name: Benzyl acetate

CAS: 140-11-4

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: For R&amp;D use only. Not for medicinal, household or other use.

Uses advised against: none

**Company Identification**

Company: Chemicalbook.in

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**SECTION 2: Hazards identification****Classification of the substance or mixture**

Hazardous to the aquatic environment, long-term (Chronic) - Category Chronic 3

### GHS label elements, including precautionary statements

Signal word                      No signal word

### Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects

### Precautionary statement(s)

### Prevention

P273 Avoid release to the environment.

### Response

none

### Storage

none

### Disposal

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards which do not result in classification

no data available

## SECTION 3: Composition/information on ingredients

### Substance

Chemical name:                      Benzyl acetate

Common names and  
synonyms:                              Benzyl acetate

CAS number:                            140-11-4

EC number:                              205-399-7

Concentration:                        100%

## SECTION 4: First aid measures

### Description of necessary first-aid measures

#### If inhaled

Fresh air, rest. Refer for medical attention.

#### Following skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap.

#### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

#### Following ingestion

Rinse mouth. Do NOT induce vomiting. Give one or two glasses of water to drink. Rest. Refer for medical attention .

### Most important symptoms/effects, acute and delayed

Harmful if inhaled. May be harmful if swallowed or absorbed through the skin. Vapor or mist is irritating to the eyes, mucous membrane and upper respiratory tract. (USCG, 1999)

### Indication of immediate medical attention and special treatment needed, if necessary

#### Absorption, Distribution and Excretion

Benzyl acetate was absorbed from the gastrointestinal tract of rats and mice, with approximately 90% of the administered dose recovered as various metabolites in the urine within 24 hr. ... This capacity for absorption, metabolism, and disposition was unaffected by the amount or number of doses administered.

## SECTION 5: Firefighting measures

### Suitable extinguishing media

Alcohol foam, carbon dioxide.

### Specific hazards arising from the chemical

This chemical is combustible. (NTP, 1992)

#### **Special protective actions for fire-fighters**

Use water spray, powder, alcohol-resistant foam, carbon dioxide.

### **SECTION 6: Accidental release measures**

#### **Personal precautions, protective equipment and emergency procedures**

Ventilation. Cover the spilled material with earth or sand. Collect leaking and spilled liquid in covered containers as far as possible. Wash away remainder with plenty of water.

#### **Environmental precautions**

Ventilation. Cover the spilled material with earth or sand. Collect leaking and spilled liquid in covered containers as far as possible. Wash away remainder with plenty of water.

#### **Methods and materials for containment and cleaning up**

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

### **SECTION 7: Handling and storage**

#### **Precautions for safe handling**

NO open flames. Above 90°C use a closed system and ventilation. Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

#### **Conditions for safe storage, including any incompatibilities**

Separated from strong oxidants. Ventilation along the floor.

### **SECTION 8: Exposure controls/personal protection**

**Control parameters****Occupational Exposure limit values**

TLV: 10 ppm as TWA; A4 (not classifiable as a human carcinogen)

**Biological limit values**

no data available

**Appropriate engineering controls**

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

**Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Wear safety spectacles.

**Skin protection**

Protective gloves.

**Respiratory protection**

Use ventilation, local exhaust or breathing protection.

**Thermal hazards**

no data available

**SECTION 9: Physical and chemical properties and safety characteristics**

Physical state:	Liquid.
Colour:	Clear, colourless.
Odour:	PEAR-LIKE ODOR
Melting point/freezing point:	-51.5 °C. Remarks: With an error of.

Boiling point or initial boiling point and boiling range:	213.5 °C. Atm. press.:101 325 Pa.
Flammability:	Combustible.
Lower and upper explosion limit/flammability limit:	no data available
Flash point:	102 °C. Atm. press.:101 325 Pa.
Auto-ignition temperature:	460 °C. Atm. press.:101 325 Pa.
Decomposition temperature:	no data available
pH:	no data available
Kinematic viscosity:	dynamic viscosity (in mPa s) = 4.5. Temperature:25.0°C.
Solubility:	less than 1 mg/mL at 73° F (NTP, 1992)
Partition coefficient n-octanol/water:	log Pow = 1.96. Temperature:25 °C. Remarks:Temperature and pressure not listed in reference.
Vapour pressure:	0.004 Pa. Temperature:-51.5 °C.;31 973 hPa. Temperature:426 °C.
Density and/or relative density:	1.054 g/cm <sup>3</sup> . Temperature:25 °C.
Relative vapour density:	5.1 (NTP, 1992) (Relative to Air)
Particle characteristics:	no data available

## SECTION 10: Stability and reactivity

### Reactivity

Decomposes on burning. This produces irritating fumes. Reacts with strong oxidants. This generates fire and explosion hazard.

### **Chemical stability**

no data available

### **Possibility of hazardous reactions**

Combustible liquid. BENZYL ACETATE is an ester. Esters react with acids to liberate heat along with alcohols and acids. Strong oxidizing acids may cause a vigorous reaction that is sufficiently exothermic to ignite the reaction products. Heat is also generated by the interaction of esters with caustic solutions. Flammable hydrogen is generated by mixing esters with alkali metals and hydrides. This chemical is incompatible with strong oxidizing agents. It is also incompatible with acids, bases and reducing agents. (NTP, 1992)

### **Conditions to avoid**

no data available

### **Incompatible materials**

STABILITY: This chemical may be sensitive to light. Solutions of this chemical in water, DMSO, 95% ethanol or acetone should be stable for 24 hours under normal lab conditions. REACTIVITY: This chemical is incompatible with strong oxidizing agents. It is also incompatible with acids, bases and reducing agents. (NTP, 1992)

### **Hazardous decomposition products**

When heated to decomposition it emits irritating fumes.

## **SECTION 11: Toxicological information**

### **Acute toxicity**

Oral: Rat (Osborne-Mendel) oral 2.49 g/kg

Inhalation: no data available

Dermal: no data available

### **Skin corrosion/irritation**

no data available

**Serious eye damage/irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

Evaluation: No epidemiological data relevant to the carcinogenicity of benzyl acetate were available. There is limited evidence in experimental animals for the carcinogenicity of benzyl acetate. Overall evaluation: Benzyl acetate is not classifiable as to its carcinogenicity in humans (Group 3).

**Reproductive toxicity**

no data available

**STOT-single exposure**

The vapour is irritating to the eyes and respiratory tract. The substance may cause effects on the central nervous system. Exposure far above the OEL could cause unconsciousness.

**STOT-repeated exposure**

The substance defats the skin, which may cause dryness or cracking. The substance may have effects on the kidneys.

**Aspiration hazard**

A harmful contamination of the air will be reached rather slowly on evaporation of this substance at 20°C; on spraying or dispersing, however, much faster.

**SECTION 12: Ecological information****Toxicity**



Toxicity to fish: LC50 - *Oryzias latipes* - 4 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - *Daphnia magna* - 17 mg/L - 48 h.

Toxicity to algae: EC50 - *Desmodesmus subspicatus* (previous name: *Scenedesmus subspicatus*) - 110 mg/L - 72 h.

Toxicity to microorganisms: EC50 - activated sludge - 855 mg/L - 3 h. Remarks: Respiration rate.

#### **Persistence and degradability**

Benzyl acetate reached 92 to 96% of its theoretical BOD over a period of 4 weeks using an activated sludge seed and an initial chemical concentration of 100 mg/l(1).

#### **Bioaccumulative potential**

An estimated BCF of 18 was calculated for benzyl acetate(SRC), using a log Kow of 1.96(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests that bioconcentration in aquatic organisms is low(SRC).

#### **Mobility in soil**

The Koc of benzyl acetate is estimated as approximately 180(SRC), using a log Kow of 1.96(1) and a regression-derived equation(2,SRC). According to a classification scheme(3), this estimated Koc value suggests that benzyl acetate is expected to have moderate mobility in soil(SRC).

#### **Other adverse effects**

no data available

### **SECTION 13: Disposal considerations**

#### **Disposal methods**

##### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

##### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## SECTION 14: Transport information

### UN Number

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### UN Proper Shipping Name

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### Transport hazard class(es)

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### Packing group, if applicable

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### Environmental hazards

ADR/RID: No

IMDG: No

IATA: No

### Special precautions for user

no data available

### Transport in bulk according to IMO instruments

no data available

## **SECTION 15: Regulatory information**

**Safety, health and environmental regulations specific for the product in question**

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

Listed.

**EC Inventory**

Listed.

**United States Toxic Substances Control Act (TSCA) Inventory**

Listed.

**China Catalog of Hazardous chemicals 2015**

Not Listed.

**New Zealand Inventory of Chemicals (NZIoC)**

Listed.

**(PICCS)**

Listed.

**Vietnam National Chemical Inventory**

Listed.

**IECSC)**

Listed.

**Korea Existing Chemicals List (KECL)**

Listed.

## **SECTION 16: Other information**

**Abbreviations and acronyms**

CAS: Chemical Abstracts Service

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

### References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: <http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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