according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



# Benzoic acid benzyl ester ≥99 %, for synthesis

article number: **9498** Version: **5.0 en** Replaces version of: 01.04.2022 Version: (4)

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

9498

1.1 Product identifier

Identification of the substance

Article number

Registration number (REACH)

cause the substance is not subject to registration<br/>according to REACH (< 1 t/a).</th>Index number in CLP Annex VI607-085-00-9EC number204-402-9CAS number120-51-4Alternative name(s)Benzyl benzoate

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Laboratory chemical Laboratory and analytical use

Uses advised against:

Do not use for private purposes (household). Food, drink and animal feedingstuffs.

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It is not required to list the identified uses be-

# 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

#### e-mail (competent person):

### sicherheit@carlroth.de

## 1.4 Emergency telephone number

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

### Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
4.1A	Hazardous to the aquatic environment - acute hazard	1	Aquatic Acute 1	H400
4.1C	Hazardous to the aquatic environment - chronic hazard	2	Aquatic Chronic 2	H411

For full text of abbreviations: see SECTION 16

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# **The most important adverse physicochemical, human health and environmental effects** Spillage and fire water can cause pollution of watercourses.

#### 2.2 Label elements

# Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning

Pictograms

GHS07, GHS09



### **Hazard statements**

H302	Harmful if swallowed
H410	Very toxic to aquatic life with long lasting effects

### **Precautionary statements**

#### **Precautionary statements - prevention**

P270	Do not eat, drink or smoke when using this product
P273	Avoid release to the environment

#### Labelling of packages where the contents do not exceed 125 ml

Signal word: Warning



### 2.3 Other hazards

# Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

# Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

# **SECTION 3: Composition/information on ingredients**

# 3.1 Substances

Name of substance	Benzoic acid benzyl ester
Molecular formula	$C_{14}H_{12}O_2$
Molar mass	213,3 <sup>g</sup> / <sub>mol</sub>
CAS No	120-51-4
EC No	204-402-9
Index No	607-085-00-9

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Substance, Specific Conc. Limits, M-factors, ATE					
Specific Conc. Limits	M-Factors	ATE	Exposure route		
-	-	500 <sup>mg</sup> / <sub>kg</sub>	oral		

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures



### **General notes**

Take off contaminated clothing.

# **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

### Following skin contact

Rinse skin with water/shower. In all cases of doubt, or when symptoms persist, seek medical advice.

# Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

### **Following ingestion**

Rinse mouth with water (only if the person is conscious). Call a doctor.

# 4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, Nausea, Vomiting, Spasms, Loss of righting reflex, and ataxia

# **4.3 Indication of any immediate medical attention and special treatment needed** none

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media



# Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

### Unsuitable extinguishing media

water jet

# 5.2 Special hazards arising from the substance or mixture

Combustible. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

# Hazardous combustion products

In case of fire may be liberated: Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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# 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures



### For non-emergency personnel

Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

# 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

# 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains.

### Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

# 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Provision of sufficient ventilation.

#### Measures to protect the environment

Avoid release to the environment.

### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

### Incompatible substances or mixtures

Observe hints for combined storage.

### Consideration of other advice:

# Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

# 7.3 Specific end use(s)

No information available.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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

# 8.1 Control parameters

# **National limit values**

# **Occupational exposure limit values (Workplace Exposure Limits)**

This information is not available.

# Human health values

#### **Relevant DNELs and other threshold levels**

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	5,1 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	102 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
DNEL	2,6 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects

# **Environmental values**

Relevant	Relevant PNECs and other threshold levels						
End- point	Threshold Organism Environmental com- level partment		Exposure time				
PNEC	0,017 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)			
PNEC	0,002 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	marine water	short-term (single instance)			
PNEC	100 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)			
PNEC	10,66 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sediment	short-term (single instance)			
PNEC	1,07 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)			
PNEC	2,12 <sup>mg</sup> / <sub>kg</sub>	terrestrial organisms	soil	short-term (single instance)			

### 8.2 Exposure controls

## Individual protection measures (personal protective equipment)

**Eye/face protection** 



Use safety goggle with side protection.

Skin protection



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# hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

Butyl caoutchouc (butyl rubber)

#### material thickness

0,5 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65  $^{\circ}$ C, colour code: Brown).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	21 °C (ECHA)
Boiling point or initial boiling point and boiling range	323 – 324 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	not determined
Flash point	148 °C at 101,3 kPa (ECHA)
Auto-ignition temperature	480 °C (ECHA)
Decomposition temperature	not relevant
pH (value)	not determined

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	Kinematic viscosity	not determined
	Dynamic viscosity	10,9 mPa s at 25 °C
	Solubility(ies)	
	Water solubility	(poorly soluble)
	Partition coefficient	
	Partition coefficient n-octanol/water (log value):	3,97 (25 °C) (ECHA)
	Soil organic carbon/water (log KOC)	3,8 (ECHA)
	Vapour pressure	<0,1 hPa at 20 °C
	Density and/or relative density	
	Density	1,12 <sup>g</sup> / <sub>cm³</sub> at 20 °C
	Relative vapour density	7,31 (air = 1)
	Particle characteristics	not relevant (liquid)
	Other safety parameters	
	Oxidising properties	none
9.2	Other information	
	Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
	Other safety characteristics:	
	Temperature class (EU, acc. to ATEX)	T1 Maximum permissible surface temperature on the equipment: 450°C

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

This material is not reactive under normal ambient conditions.

# If heated

Vapours may form explosive mixtures with air.

# 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

# 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

### 10.4 Conditions to avoid

Keep away from heat.

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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- **10.5** Incompatible materials different plastics, Light metals
- **10.6 Hazardous decomposition products** Hazardous combustion products: see section 5.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Classification according to GHS (1272/2008/EC, CLP)

# Acute toxicity

Harmful if swallowed.

Acute toxicity					
Exposure rout	e Endpoint	Value	Species	Method	Source
oral	LD50	>2.000 <sup>mg</sup> / <sub>kg</sub>	rat		ECHA

# Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

# Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

# **Respiratory or skin sensitisation**

Shall not be classified as a respiratory or skin sensitiser.

### Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

### Carcinogenicity

Shall not be classified as carcinogenic.

### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

# Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

# Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

# Symptoms related to the physical, chemical and toxicological characteristics

### • If swallowed

vomiting, nausea, Spasms, gastrointestinal complaints, loss of righting reflex, and ataxia

### • If in eyes

slightly irritant but not relevant for classification

### • If inhaled

irritant effects

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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# • If on skin

Frequently or prolonged contact with skin may cause dermal irritation

# Other information

none

# 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

### 11.3 Information on other hazards

There is no additional information.

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Endpoint	Value	Species	Source	Exposure time
LC50	0,29 <sup>mg</sup> / <sub>l</sub>	striped brill		96 h
EC50	3,09 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	48 h
ErC50	0,475 <sup>mg</sup> / <sub>l</sub>	algae	ECHA	72 h

Endpoint	Value	Species	Source	Exposure time
LC50	11 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	ECHA	24 h
EC50	>10.000 <sup>mg</sup> /l	microorganisms	ECHA	3 h

### 12.2 Persistence and degradability

Theoretical Oxygen Demand: 2,401 <sup>mg</sup>/<sub>mg</sub> Theoretical Carbon Dioxide: 2,889 <sup>mg</sup>/<sub>mg</sub>

# **Biodegradation**

The substance is readily biodegradable.

Process of degradability		
Process	Degradation rate	Time
biotic/abiotic	94 %	28 d
oxygen depletion	94 %	28 d

# 12.3 Bioaccumulative potential

Does not significantly accumulate in organisms.

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n-octanol/water (log KOW)	3,97 (25 °C) (ECHA)
BCF	193,4 (ECHA)

# 12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient	3,8 (ECHA)
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# 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

### 12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

## Properties of waste which render it hazardous

HP 6 acute toxicity HP 14 ecotoxic

### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

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SEC	TION 14: Transport information		
14.1	UN number or ID number		
	ADR	UN 3082	
	IMDG-Code	UN 3082	
	ICAO-TI	UN 3082	
14.2	UN proper shipping name		
	ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.	
	IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.	
	ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.	
	Technical name	Benzoic acid benzyl ester	
14.3	Transport hazard class(es)		
	ADR	9	
	IMDG-Code	9	
	ICAO-TI	9	
14.4	Packing group		
	ADR	III	
	IMDG-Code	III	
	ICAO-TI	III	
14.5	Environmental hazards	hazardous to the aquatic environment	
14.6	Special precautions for user		
	Provisions for dangerous goods (ADR) should be complied within the premises.		
14.7	Maritime transport in bulk according to IMO in	struments	
	The cargo is not intended to be carried in bulk.		
14.8	Information for each of the UN Model Regulation	ons	
	Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information		
	Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.	
	Particulars in the transport document	UN3082, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S., (Benzoic acid benzyl es- ter), 9, III, (-)	
	Classification code	M6	

Danger label(s)

Environmental hazards

yes (hazardous to the aquatic environment)

9, "Fish and tree"

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



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Special provisions (SP)	274, 335, 375, 601
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	-
Hazard identification No	90
International Maritime Dangerous Goods C	ode (IMDG) - Additional information
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LI- QUID, N.O.S.
Particulars in the shipper's declaration	UN3082, ENVIRONMENTALLY HAZARDOUS SUB- STANCE, LIQUID, N.O.S., (Benzoic acid benzyl es- ter), 9, III
Marine pollutant	<b>yes</b> (hazardous to the aquatic environment), (Benzoic acid benzyl ester)
Danger label(s)	9, "Fish and tree"
Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A
International Civil Aviation Organization (IC	CAO-IATA/DGR) - Additional information
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (Benzoic acid benzyl ester), 9, III
Environmental hazards	<b>yes</b> (hazardous to the aquatic environment)
Danger label(s)	9, "Fish and tree"
Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

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# **SECTION 15: Regulatory information**

#### Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1

**Relevant provisions of the European Union (EU)** 

#### **Restrictions according to REACH, Annex XVII**

Dangerous substances with restrictions (REACH, Annex XVII)				
Name of substance	Name acc. to inventory	CAS No	Restriction	No
Benzoic acid benzyl ester	this product meets the criteria for classification in accordance with Reg- ulation No 1272/2008/EC		R3	3

#### Legend R3

1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

- tricks and jokes,

- games for one or more participants, or any article intended to be used as such, even with ornamental aspects,

 Articles not complying with paragraph 1 shall not be placed on the market.
 Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they

– can be used as fuel in decorative oil lamps for supply to the general public, and – present an aspiration hazard and are labelled with H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation

(CEN). 5. Without prejudice to the implementation of other Union provisions relating to the classification, labelling and pack-aging of substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

(a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil – or even sucking the wick of lamps – may lead to life-threatening lung damage";
(b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: 'Just a sip of grill lighter fluid may lead to life threatening lung damage';
(c) lamps oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.';

# List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

Not listed.

### **Seveso Directive**

2012/18/EU (Seveso III)					
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes		
E1	environmental hazards (hazardous to the aquatic en- vironment, cat. 1)	100 200	56)		

Notation

Hazardous to the Aquatic Environment in category Acute 1 or Chronic 1 56)

### **Deco-Paint Directive**

VOC content	0 %
VOC content	0 g/l

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Industrial Emissions Directive (IED)		
VOC content	0 %	
VOC content	0 <sup>g</sup> / <sub>l</sub>	

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

#### Water Framework Directive (WFD)

#### not listed

#### Regulation on the marketing and use of explosives precursors

not listed

#### **Regulation on drug precursors**

not listed

#### Regulation on substances that deplete the ozone layer (ODS)

not listed

### Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

### **Regulation on persistent organic pollutants (POP)**

not listed

### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

### **National inventories**

Country	Inventory	Status
AU	AIIC	substance is listed
CA	DSL	substance is listed
CN	IECSC	substance is listed
EU	ECSI	substance is listed
EU	REACH Reg.	substance is listed
JP	CSCL-ENCS	substance is listed
JP	ISHA-ENCS	substance is listed
KR	KECI	substance is listed
MX	INSQ	substance is listed
NZ	NZIoC	substance is listed
РН	PICCS	substance is listed
TR	CICR	substance is listed

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Country	Inventory	Status
TW	TCSI	substance is listed
US	TSCA	substance is listed (ACTIVE)
VN	NCI	substance is listed
AIIC CICR CSCL-ENCS DSL ECSI IECSC INSQ ISHA-ENCS KECI NCI NZIOC PICCS	CICRChemical Inventory and Control RegulationCSCL-ENCSList of Existing and New Chemical Substances (CSCL-ENCS)DSLDomestic Substances List (DSL)ECSIEC Substance Inventory (EINECS, ELINCS, NLP)IECSCInventory of Existing Chemical Substances Produced or Imported in ChinaINSQNational Inventory of Chemical SubstancesISHA-ENCSInventory of Existing and New Chemical Substances (ISHA-ENCS)KECIKorea Existing Chemicals InventoryNCINational Chemical InventoryNZIOCNew Zealand Inventory of Chemicals and Chemical Substances (PICCS)PICCSPhilippine Inventory of Chemicals and Chemical Substances (PICCS)REACH Reg.REACH registered substances	

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

# Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.3		Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
15.1		VOC content: 0 <sup>g</sup> / <sub>l</sub>	yes
15.1		VOC content: 0 <sup>g</sup> / <sub>l</sub>	yes
15.1		National inventories: change in the listing (table)	yes

# Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval

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Abbr.	Descriptions of used abbreviations
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SVHC	Substance of Very High Concern
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative

### Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

### List of relevant phrases (code and full text as stated in section 2 and 3)

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU



# Benzoic acid benzyl ester ≥99 %, for synthesis

#### article number: 9498

Code	Text
H302	Harmful if swallowed.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

# Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.