



# SAFETY DATA SHEET

## BENZYL BENZOATE

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### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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PRODUCT NAME: BENZYL BENZOATE

PRODUCT NO: RM039

SUPPLIER: J M Loveridge Ltd  
Unit 5, Kingsway  
Walworth Industrial Estate, Andover  
Hampshire, SP10 5LQ  
+44 (0) 1264 367610  
+44 (0) 1264 351761  
Mr. S Knight – admin@jmloveridge.com

EMERGENCY CONTACT NUMBER:

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### 2 HAZARDS IDENTIFICATION

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#### Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4, Oral, H302

Chronic aquatic toxicity, Category 2, H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC)

Xn Harmful R22

N Dangerous for the environment R51/53

For the full text of the R-Phrases mentioned in this Section, see Section 16.

#### Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard Pictograms:



Signal Word: Warning

Hazard Statements: H302 Harmful if swallowed  
H411 Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention: P273 Avoid release to the environment



Reduced labelling (≤125 ml)

Hazard Pictograms:



Signal Word: Warning  
 Index-No 607-085-00-9

Labelling (67/548/EEC or 1999/45/EC)


Symbol(s):		Xn	Harmful
		N	Dangerous for the environment

R-Phrase(s): 22-51/53 Harmful if swallowed. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-Phrase(s): 25-46-61 Avoid contact with eyes. If swallowed, seek medical Advice immediately and show this container or label. Avoid release to the environment. Refer to special instructions/Safety Data Sheets.

EC-No: 204-402-9 EC label

Reduced labelling (≤125 ml)

Symbol(s):		Xn	Harmful
R-Phrase(s):		22	Harmful if swallowed

Other hazards

None known

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### 3 COMPOSITION/INFORMATION ON INGREDIENTS

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Substance

Formula	C6H5COOCH2C6H5	C14H12O2 (Hill)
CAS-No	120-51-4	
Index-No	607-085-00-9	
EC-No	204-402-9	
Molar Mass	212,24 g/mol	

Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical Name (Concentration)*

CAS-No	Registration Number	Classification
<i>Benzyl benzoate (&lt;= 100%)</i>		
120-51-4	*)	Acute toxicity, Category 4, H302 Chronic aquatic toxicity, Category 2, H411

\*) A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Hazardous components (1999/45/EC)

*Chemical Name (Concentration)*

CAS-No	Classification
<i>Benzyl benzoate (&lt;= 100%)</i>	
120-51-4	Xn, Harmful, R22
	N, Dangerous for the environment; R51/53

For the full text of the R-Phrases mentioned in this Section, see Section 16.

Mixture

Not applicable

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## 4 FIRST-AID MEASURES

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DESCRIPTION OF FIRST AID MEASURES

AFTER INHALATION

Fresh air.

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. Call in ophthalmologist if necessary.

AFTER SWALLOWING

Immediately make victim drink water (two glasses as most). Consult a physician.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Irritant effects, agitation, spasms, diarrhoea, nausea, vomiting, cardiovascular disorders, ataxia (impaired locomotor coordination).

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

No information available.

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## 5 FIRE-FIGHTING MEASURES

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EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

Water, Carbon dioxide (CO<sub>2</sub>), Foam, Dry powder.

UNSUITABLE EXTINGUISHING MEDIA

For this substance/mixture no limitations of extinguishing agents are given.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Combustible. Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

ADVICE FOR FIREFIGHTERS

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

In the event of fire, wear self-contained breathing apparatus.

FURTHER INFORMATION

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## 6 ACCIDENTAL RELEASE MEASURES

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### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see Section 8.

### ENVIRONMENTAL PRECAUTIONS

Do not empty into drains.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see Sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

### REFERENCE TO OTHER SECTIONS

Indications about waste treatment see Section 13.

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## 7 HANDLING AND STORAGE

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### PRECAUTIONS FOR SAFE HANDLING

#### ADVICE ON SAFE HANDLING

Observe label precautions.

#### HYGIENE MEASURES

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

### CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

#### STORAGE CONDITIONS

Tightly closed. Store at +15°C to +25°C.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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### CONTROL PARAMETERS

#### EXPOSURE CONTROLS

#### ENGINEERING MEASURES

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See Section 7.1.

#### INDIVIDUAL PROTECTION MEASURES

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### EYE/FACE PROTECTION

Safety glasses.

#### HAND PROTECTION

Full contact:	Glove material:	butyl-rubber
	Glove thickness:	0,7 mm
	Break through time:	> 480 min
Splash contact:	Glove material:	Nitrile rubber
	Glove thickness:	0,40 mm
	Break through time:	> 30 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 898 Butojet® (full contact), KCL 730 Camatril® - Velours (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of recommended glove types. This recommendation applies only to the product stated in this Safety Data Sheet <(>,<)> supplied by us for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### OTHER PROTECTIVE CLOTHING

Protective clothing.

#### RESPIRATORY PROTECTION

Required when vapours/aerosols are generated. Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic compounds. The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### ENVIRONMENTAL EXPOSURE CONTROLS

Do not empty into drains.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

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Information on basic physical and chemical properties

Form:	Liquid
Colour:	Colourless
Odour:	Weakly aromatic
Odour Threshold:	No information available
pH:	No information available
Melting Point:	21°C
Boiling Point/Boiling Range:	324°C at 1.013 hPa
Flash Point:	158°C Method: c.c.
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Lower Explosion Limit:	No information available
Upper Explosion Limit:	No information available
Vapour Pressure:	< 0,1 hPa at 20°C
Relative Vapour Density:	7,31
Relative Density:	1,12 g/cm <sup>3</sup> at 20°C
Water Solubility:	0,0153 g/l at 20°C
Partition coefficient n-octanol/water:	log Pow: 3,97 (experimental) (Lit.) Bioaccumulation is not expected
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Viscosity, dynamic:	10,9 mPa.s at 25°C
Explosive Properties:	Not classified as explosive
Oxidizing Properties:	None
Other data	
Ignition Temperature:	480°C

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## 10 STABILITY AND REACTIVITY

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#### REACTIVITY

Forms explosive mixtures with air on intense heating.

**CHEMICAL STABILITY**

The product is chemically stable under standard ambient conditions (room temperature).

**POSSIBILITY OF HAZARDOUS REACTIONS**

Violent reactions possible with: Strong oxidizing agents.

**CONDITIONS TO AVOID**

Strong heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical.

**INCOMPATIBLE MATERIALS**

Various plastics, Light metals, metal alloys.

**HAZARDOUS DECOMPOSITION PRODUCTS**

No information available.

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**11 TOXICOLOGICAL INFORMATION**

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**INFORMATION ON TOXICOLOGICAL EFFECTS***Acute oral toxicity*

LD50 rat: 1.904 mg/kg (RTECS)

*Absorption*

Symptoms: Nausea, Vomiting, Diarrhoea.

*Acute inhalation toxicity*

Symptoms: Irritation symptoms in the respiratory tract.

*Acute dermal toxicity*

LD50 rabbit: 4.000 mg/kg (RTECS)

*Skin irritation**Rabbit*

Result: Slight irritation (IUCLID)

*Eye irritation*

This information is not available.

*Sensitisation*

Patch test: Human

Result: Negative (IUCLID)

Sensitisation test: guinea pig

Result: Negative (IUCLID)

*Germ cell mutagenicity**Genotoxicity in vitro**Ames test*

Result: Negative (IUCLID)

*Carcinogenicity*

This information is not available

*Reproductive toxicity*

This information is not available

*Teratogenicity*

This information is not available

*Specific target organ toxicity – single exposure*

This information is not available

*Specific target organ toxicity – repeated exposure*

This information is not available

*Aspiration hazard*

This information is not available

**FURTHER INFORMATION**

Systemic effects: Cardiovascular disorders, agitation, spasms, ataxia (impaired locomotor coordination). Handle in accordance with good industrial hygiene and safety practice.

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**12 ECOLOGICAL INFORMATION**

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**TOXICITY***Toxicity to fish*

LC50 Danio rerio (zebra fish): 2,32 mg/l; 96 h (IUCLID)

*Toxicity to bacteria*

EC50 activated sludge: >10.000 mg/l; 3 h

ISO 8192 (IUCLID)

**PERSISTENCE AND DEGRADABILITY***Biodegradability*

94%; 28 d

OECD Test Guideline 301F

Readily biodegradable.

**BIOACCUMULATIVE POTENTIAL***Partition coefficient n-octanol/water*

log Pow: 3,97

(experimental)

(Lit.) Bioaccumulation is not expected.

**MOBILITY IN SOIL**

No information available.

**RESULTS OF PBT AND VPvB ASSESSMENT**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**OTHER ADVERSE EFFECTS**

Discharge into the environment must be avoided.

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**13 DISPOSAL CONSIDERATIONS**

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**WASTE TREATMENT METHODS**

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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**14 TRANSPORT INFORMATION**

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**LAND TRANSPORT (ADR/RID)**

UN Number:	UN 3082
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE)
Class:	9
Packing Group:	III
Environmentally Hazardous:	Yes
Special Precautions for user:	Yes
Tunnel Restriction Code:	E

## INLAND WATERWAY TRANSPORT (ADN)

Not relevant.

## AIR TRANSPORT (IATA)

UN Number: UN 3082  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE)  
Class: 9  
Packing Group: III  
Environmentally Hazardous: Yes  
Special Precautions for user: No

## SEA TRANSPORT (IMDG)

UN Number: UN 3082  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BENZYL BENZOATE)  
Class: 9  
Packing Group: III  
Environmentally Hazardous: Yes  
Special Precautions for user: Yes  
EmS: F-A S-F

## TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE

Not relevant

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**15 REGULATORY INFORMATION**

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## SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

*EU Regulations*

Major Accident Hazard: 96/82/EC  
Legislation: Dangerous for the environment  
9b  
Quantity 1: 200 t  
Quantity 2: 500 t

## OCCUPATIONAL RESTRICTIONS

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

*National Legislation*

Storage Class 10-13

## CHEMICAL SAFETY ASSESSMENT

For this product a chemical safety assessment was not carried out.



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**16 OTHER INFORMATION**

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Full text of H-Statements referred to under Sections 2 and 3

H302 Harmful if swallowed

H411 Toxic to aquatic life with long lasting effects

Full text of R-Phrases referred to under Sections 2 and 3

R22 Harmful if swallowed

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**TRAINING ADVICE**

Provide adequate information, instruction and training for operators.

**KEY OR LEGEND TO ABBREVIATIONS AND ACRONYMS USED IN THIS SAFETY DATA SHEET**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**REGIONAL REPRESENTATION**

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

**DISCLAIMER**

The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this SDS is to the best of JML's knowledge correct at the time of publication. However, no guarantee is given to its accuracy, reliability or completeness and the information may not be valid if the product is used in combination with other materials or process. It is the responsibility of the user to ensure that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulatory requirements.