



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 3/29/2019 Version: 1.0

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

1.1. Product identifier

Product form : Substance

Substance name : Benzyl benzoate (pharma grade)
IUPAC name : benzoic acid phenyl methyl ester

 EC-No.
 : 204-402-9

 CAS-No.
 : 120-51-4

 Product code
 : 90023278

 Formula
 : C14H12O2

 Product group
 : Raw material

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

#### 1.2.1. Relevant identified uses

Main use category : Laboratory use, Industrial use, Professional use

Industrial/Professional use spec : For professional use only

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

## Supplier

Scafell Organics Molekula Ltd Lingfield Way Darlington - England

T +44 (0) 1949 823777 / +44 (0) 7590 545705

info@molekula.com / kbowen@molekula.com - www.molekula.com

#### 1.4. Emergency telephone number

Emergency number : +44 (0) 7590 545705

### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Acute toxicity (oral), Category 4 H302
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

Full text of H statements : see section 16

## Adverse physicochemical, human health and environmental effects

No additional information available

# 2.2. Label elements

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

Hazard pictograms (CLP)





GHS07

GHS09

Signal word (CLP) : Warning

Hazard statements (CLP) : H302 - Harmful if swallowed.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P273 - Avoid release to the environment.

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

EN (English) 1/8

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	Product identifier	%
Benzyl benzoate (pharma grade)	(CAS-No.) 120-51-4 (EC-No.) 204-402-9	100

Full text of H-statements: see section 16

#### 3.2. Mixtures

Not applicable

## **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

First-aid measures general : If possible show this sheet, if not available show packaging or label. Never give anything by mouth to an unconscious person. Do not leave affected person unattended.

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable First-aid measures after inhalation

for breathing. Give oxygen or artificial respiration if necessary. If breathing difficulties

persist: Get medical advice/attention.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water. Do not remove clothing if it sticks to the skin. If irritation

persists, consult a doctor.

First-aid measures after eye contact : Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Get medical advice/attention.

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

: Inhalation may cause irritation (cough, short breathing, difficulty in breathing). Headache. Symptoms/effects after inhalation

: May cause moderate irritation, including burning sensation, tearing, redness or swelling. Symptoms/effects after skin contact

Itching.

Symptoms/effects after eye contact : May cause eye irritation. redness, itching, tears. stinging.

: Swallowing this material may result in health hazard. Symptoms of ingestion include Symptoms/effects after ingestion

drowsiness, weakness, headache, dizziness, nausea, vomiting. More severe symptoms

are also possible.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Get immediate medical advice/attention.

# **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

# 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxides (CO, CO2).

# 5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame. Keep away from

combustible materials.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Warn all persons of toxic hazard.

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

## 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Isolate from fire, if possible, without unnecessary risk. Do not breathe gas, fumes, vapour

or spray. No flames, no sparks. Eliminate all sources of ignition.

# 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

: Evacuate unnecessary personnel. Mark out the contaminated area with signs and prevent **Emergency procedures** 

access to unauthorized personnel. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing.

Measures in case of dust release : Shelter from vapours by keeping upwind. Ventilate the area thoroughly, especially low lying

areas (basements, workpits etc).

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Use self-contained breathing apparatus and

chemically protective clothing.

**Emergency procedures** : Ventilate area.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain the spilled material by bunding.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Try to stop release if without risk.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Precautions for safe handling : Avoid formation of vapours. Provide local exhaust or general room ventilation.

Hygiene measures : Take off immediately all contaminated clothing and wash it before reuse. Wash hands and

other exposed areas with mild soap and water before eating, drinking or smoking and when

leaving work. Do not eat, drink or smoke when using this product.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ensure adequate ventilation, especially in confined areas.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat

sources, Direct sunlight. Keep container closed when not in use.

Incompatible products : Strong oxidisers.

Incompatible materials : Sources of ignition. Direct sunlight. Heat sources.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking

Storage area : Store below 20 °C. Store in a dry place. Store in a closed container.

#### 7.3. Specific end use(s)

No additional information available

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

#### 8.1. Control parameters

No additional information available

## 8.2. Exposure controls

# Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety procedures. Floors should be impervious, resistant to liquids and easy to clean.

### Personal protective equipment:

Avoid all unnecessary exposure.

## Hand protection:

The protective gloves to be used must comply with the specifications of the regulation 2016/425 and the resultant standard EN 374

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.11		EN 374

# Eye protection:

Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Use eye protection according to EN 166, designed to protect against liquid splashes.

Туре	Use	Characteristics	Standard
Safety glasses	Droplet, vapours	With side shields	EN 166

## Skin and body protection:

Emergency safety showers should be available in the immediate vicinity of any potential exposure. Keep suitable chemically resistant protective clothing readily available for emergency use

Туре	Standard
Long sleeved protective clothing, Impervious clothing	EN 14605

#### Respiratory protection:

Keep self contained breathing apparatus readily available for emergency use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Device	Filter type	Condition	Standard
Respiratory protective device with a particle filter	ABEK	Protection for Liquid particles, Vapour protection	EN 14387

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

#### Other information:

Do not eat, drink or smoke during use.

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

## 9.1. Information on basic physical and chemical properties

Physical state : Liauid Molecular mass : 212.24 g/mol

Colour : Clear colourless-pale yellow.

Odour : No data available. Odour threshold No data available : No data available Ha Relative evaporation rate (butylacetate=1) : No data available Melting point : 17 - 20 °C lit. Freezing point : No data available : 323 - 324 °C lit. Boiling point : 158 °C closed cup Flash point

Auto-ignition temperature : 480 °C

Decomposition temperature : No data available Flammability (solid, gas) : Non flammable. : 1 hPa at 125 °C Vapour pressure Relative vapour density at 20 °C No data available : 1.118 g/cm3 at 20 °C Relative density Solubility : No data available

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Viscosity, kinematic : No data available Viscosity, dynamic : No data available · No data available Explosive properties Oxidising properties : No data available **Explosive limits** : No data available

# 9.2. Other information

No additional information available

#### **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Protect from sunlight. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

## 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. Thermal decomposition generates: Carbon oxides (CO, CO2). Nitrogen oxides.

### **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity (oral) : Oral: Harmful if swallowed.

Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

# Benzyl benzoate (pharma grade) (120-51-4)

LD50 oral	1680 mg/kg rabbit
LD50 dermal rat	4000 mg/kg
Skin corrosion/irritation	Not classified

: Based on available data, the classification criteria are not met Additional information

Serious eye damage/irritation

Additional information : Based on available data, the classification criteria are not met

: Not classified Respiratory or skin sensitisation

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Aspiration hazard : Not classified

Additional information : Based on available data, the classification criteria are not met

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

# Benzyl benzoate (pharma grade) (120-51-4)

LC50 fish 1 0.29 mg/l Danio rerio (zebra fish) 96hr

#### 12.2. Persistence and degradability

#### Benzyl benzoate (pharma grade) (120-51-4)

Persistence and degradability No data available.

## 12.3. Bioaccumulative potential

## Benzyl benzoate (pharma grade) (120-51-4)

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 Bioaccumulative potential
 No data available.

## 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

## Benzyl benzoate (pharma grade) (120-51-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## 12.6. Other adverse effects

Additional information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

## 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID	
14.1. UN number	14.1. UN number				
3082	3082	3082	3082	3082	
14.2. UN proper shipping name					
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

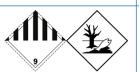
# **Transport document description**

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate (pharma grade)), 9, III, (-) UN 3082
ENVIRONMENTALLY
HAZARDOUS
SUBSTANCE, LIQUID,
N.O.S. (Benzyl benzoate
(pharma grade)), 9, III,
MARINE POLLUTANT

UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Benzyl benzoate (pharma grade)), 9, III UN 3082
ENVIRONMENTALLY
HAZARDOUS
SUBSTANCE, LIQUID,
N.O.S. (Benzyl benzoate
(pharma grade)), 9, III

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzyl benzoate (pharma grade)), 9, III

# 14.3. Transport hazard class(es)

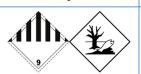


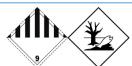


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# 14.4. Packing group

14.5. Environmental hazards

Dangerous for the

environment: Yes

Dangerous for the environment : Yes Marine pollutant : Yes

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Dangerous for the environment: Yes

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Dangerous for the environment: Yes

Ш

Dangerous for the environment: Yes

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No supplementary information available

# 14.6. Special precautions for user

# **Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions : T4

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, : CV13

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 90

Orange plates

90 3082

: TP1, TP29

Tunnel restriction code (ADR) : EAC code : •3Z

Transport by sea

Special provisions (IMDG) : 274, 335, 969

Limited quantities (IMDG) : 5 L

Excepted quantities (IMDG) : E1

Packing instructions (IMDG) : LP01, P001
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP2, TP29

EmS-No. (Fire) : F-A

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

EmS-No. (Spillage) Stowage category (IMDG) : A

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) : 30kgG PCA packing instructions (IATA) : 964 PCA max net quantity (IATA) : 450L CAO packing instructions (IATA) : 964 CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M6

: 274, 335, 375, 601 Special provisions (ADN)

Limited quantities (ADN) : 5 L Excepted quantities (ADN) : E1 Carriage permitted (ADN) · T Equipment required (ADN) : PP Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Excepted quantities (RID) · F1

Packing instructions (RID) : P001, IBC03, LP01, R001

Special packing provisions (RID) Mixed packing provisions (RID) : MP19 Portable tank and bulk container instructions (RID) : T4 Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV Transport category (RID) : 3 Special provisions for carriage - Packages (RID) : W12 : CW13, CW31

Special provisions for carriage - Loading,

unloading and handling (RID)

Colis express (express parcels) (RID) : CE8 Hazard identification number (RID) . 90

# 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

# **SECTION 15: Regulatory information**

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

# 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Benzyl benzoate (pharma grade) is not on the REACH Candidate List

Directive 2012/18/EU (SEVESO III)

# 15.1.2. National regulations

#### Germany

: Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to Reference to AwSV

AwSV; ID No. 5203)

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BlmSchV

**Netherlands** 

SZW-lijst van kankerverwekkende stoffen : The substance is not listed : The substance is not listed SZW-lijst van mutagene stoffen NIET-limitatieve lijst van voor de voortplanting : The substance is not listed

giftige stoffen - Borstvoeding

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

: The substance is not listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: The substance is not listed

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

# **SECTION 16: Other information**

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16
December 2008 on classification, labelling and packaging of substances and mixtures, amending and

repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
H302	Harmful if swallowed.	
H400	Very toxic to aquatic life.	
H411	Toxic to aquatic life with long lasting effects.	

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.