

Region: GB

Trade name: Marlotherm SH**Product no.:** 5009201**Current version :** 4.1.0, issued: 21.10.2021**Replaced version:** 4.0.1, issued: 21.06.2021**Region:** GB

H304	May be fatal if swallowed and enters airways.
H360FD	May damage fertility. May damage the unborn child.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

Supplemental label elements

"Restricted to professional users"

2.3 Other hazards

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical characterization**

Substance name dibenzylbenzene, ar-methyl derivative

Identification numbers

CAS no. 53585-53-8

EC no. 258-649-2

Other information

Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
-	-	-	M = 10

3.2 Mixtures

Not applicable. The product is not a mixture.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Ensure supply of fresh air. Remove affected person from the immediate area.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).

After ingestion

Call a doctor immediately. Do not induce vomiting - aspiration hazard. Never give anything by mouth to an unconscious person. In case of vomiting keep head of person in face-down position to prevent penetration of vomitus into the trachea.

4.2 Most important symptoms and effects, both acute and delayed**Effects**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

Trade name: Marlotherm SH**Product no.:** 5009201**Current version :** 4.1.0, issued: 21.10.2021**Replaced version:** 4.0.1, issued: 21.06.2021**Region:** GB**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide; Dry chemical extinguisher; Water mist

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixtureIn the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Run-off water from fire fighting must not be discharged into drains or enter surface water. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Observe information on personal protection equipment (see section 8).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work. Avoid contact with eyes and skin. Do not inhale vapours. Remove soiled or soaked clothing immediately.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Vapours may form explosive mixtures with air.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Do not store together with: oxidizing agents

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****DNEL, DMEL and PNEC values****DNEL values (worker)**

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	dibenzylbenzene, ar-methyl derivative			53585-53-8

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				258-649-2
	dermal	Long term (chronic)	systemic	0.37 mg/kg/day
	inhalative	Long term (chronic)	systemic	0.259 mg/m ³

DNEL value (consumer)

DNEL Value (consumer)				
No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	dibenzylbenzene, ar-methyl derivative			53585-53-8 258-649-2
	oral	Long term (chronic)	systemic	18.5 µg/kg/day
	dermal	Long term (chronic)	systemic	0.185 mg/kg/day
	inhalative	Long term (chronic)	systemic	64 µa/m³

PNEC values

PNEC values			
No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	dibenzylbenzene, ar-methyl derivative		53585-53-8 258-649-2
	water	fresh water	0.028 µg/L
	water	marine water	0.003 µg/L
	water	fresh water sediment	110 µg/kg dry weight
	water	marine water sediment	110 µg/kg dry weight
	soil	-	2 mg/kg dry weight
	sewage treatment plant	-	1.00 g/L
	secondary poisoning	-	11.10 mg/ka food

8.2 Exposure controls**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol, vapour and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Make sure when selecting personal protective equipment (PPE), that it is suitable for the activity, workplace conditions in which it will be used according to the applying European CEN standards and upon consultation with the PPE supplier. Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

State of aggregation				
liquid				
Form/Colour				
liquid				
colourless; yellow				
Odour				
weak				
pH value				
No data available				
Boiling point / boiling range				
Value		390 °C		
Melting point/freezing point				
Value		-39 - -32 °C		

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Decomposition temperature			
No data available			
Flash point			
Value	212 °C		
Method	Pensky-Martens closed cup		
Ignition temperature			
No data available			
Flammability			
No data available			
Lower explosion limit			
No data available			
Upper explosion limit			
No data available			
Vapour pressure			
Value	<	0.01 hPa	
Reference temperature		20 °C	
Relative vapour density			
No data available			
Relative density			
Value	>	1	
Density			
No data available			
Solubility in water			
Value	<	0.1 mg/l	
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
log Pow	>	6	
Reference temperature		22 °C	
Method	OECD 117		
Source	ECHA		
Viscosity			
Value		16 mm²/s	
Reference temperature		40 °C	
Type	kinematic		
Value		48 mm²/s	
Reference temperature		20 °C	
Type	kinematic		
Particle characteristics			
No data available			

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity**10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use. Vapours may form an explosive mixture with air.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources. Protect from sun.

10.5 Incompatible materials

Oxidizing agents

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No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No data available			
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Acute inhalational toxicity			
No data available			
Skin corrosion/irritation			
No data available			
Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
Source	ECHA		
Evaluation	non-irritant		
Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
Route of exposure	Skin		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
Germ cell mutagenicity			
No data available			
Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
NOAEL	80		mg/kg bw/d
Species	rats (male/female)		
Method	OECD 421		
Source	ECHA		
Carcinogenicity			
No data available			
STOT - single exposure			
No data available			
STOT - repeated exposure			
No data available			
Aspiration hazard			
In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.			

11.2 Information on other hazards**Endocrine disrupting properties**

Pursuant to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605, the product does not contain any endocrine disruptors in a concentration of 0.1% weight by weight and above.

Other information

No data available.

SECTION 12: Ecological information**12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2

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LC50	>	50	mg/l
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
NOEC	>	0.46	mg/l
Duration of exposure		14	day(s)
Species	Leuciscus idus melanotus		
Method	OECD 204		
Source	ECHA		

Toxicity to Daphnia (acute)			
No data available			

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
NOEC	>	1.4	µg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No data available			

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
NOEC	>	16	µg/l
Duration of exposure		72	day(s)
Species	Skeletonema costatum		
Source	ECHA		

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	dibenzylbenzene, ar-methyl derivative	53585-53-8	258-649-2
log Pow	>	6	
Reference temperature		22	°C
Method	OECD 117		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a vPvB.

12.6 Endocrine disrupting properties

Endocrine disrupting properties	
Pursuant to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605, the product does not contain any endocrine disruptors in a concentration of 0.1% weight by weight and above.	

12.7 Other adverse effects

No data available.

12.8 Other information

Other information	
Do not discharge product unmonitored into the environment.	

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Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	dibenzylbenzene, ar-methyl derivative
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	dibenzylbenzene, ar-methyl derivative
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	dibenzylbenzene, ar-methyl derivative
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the REACH regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

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Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category: E1

Directive 2010/75/EU on industrial emissions (integrated pollution prevention and control)

Comments not applicable

Other regulations

Observe employment restrictions for child bearing mothers and nursing mothers.

Observe employment restrictions for women of child-bearing age.

Observe employment restrictions for young people.

National regulations

National chemical inventories

USA (TSCA)	listed
DSL/NDSL (Canada)	DSL listed
ENCS (Japan)	ENCS/ISHL listed
ECL (Korea)	listed
AICS (Australia)	listed
IECSC / NEPA (China)	listed
PICCS (Philippines)	listed
CSNN (Taiwan)	TCSI listed

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

List of existing exposition scenarios

ES001 Exposure scenario/s of the manufacturer

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 758397