



Trade name: Marlotherm SH

Substance number: 292670

Version: 1 / CH

Date revised: 19.04.12

Replaces Version: - / CH

Date of printing: 19.04.12

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Marlotherm SH

Item-No. 29267000

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

Use of the substance/preparation

industry

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Asp. Tox. 1 H304

Aquatic Chronic 4 H413

Classification in accordance with EC directives

Classification Xn, R65

R53

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Danger

Hazard statements

H304

May be fatal if swallowed and enters airways.

H413

May cause long lasting harmful effects to aquatic life.

Precautionary statements

P273

Avoid release to the environment.

P301+P310

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331

Do NOT induce vomiting.



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P405

Store locked up.

P501.1

Dispose of contents/container to be taken to an authorised special waste incineration plant.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC

The product is classified and labelled in accordance with EC directives/the relevant national laws.

Hazard symbols

Harmful

R phrases

53

May cause long-term adverse effects in the aquatic environment.

65

Harmful: may cause lung damage if swallowed.

S phrases

60

This material and its container must be disposed of as hazardous waste.

61

Avoid release to the environment. Refer to special instructions/Safety data sheets.

3. Composition/information on ingredients**Hazardous ingredients****dibenzyltoluene**

CAS No. 26898-17-9

EINECS no. 248-097-0

Concentration >= 50 %

Classification Xn, R65
R53

Classification (Regulation (EC) No. 1272/2008)

Asp. Tox. 1 H304

Aquatic Chronic 4 H413

4. First aid measures**4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. If you feel unwell, seek medical advice (show the label where possible).

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off with soap and water.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.

After ingestion

Do not induce vomiting. Summon a doctor immediately.



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5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Dry powder, Foam, Carbon dioxide, Extinguishing measures to suit surroundings

Non Suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby evolution of dangerous gases possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet. Do not discharge into surface waters/groundwater. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into surface waters/groundwater. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). Pick up mechanically. Dispose of absorbed material in accordance with the regulations. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Information regarding personal protective measures see, chapter 8.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Observe the usual precautions for handling chemicals. Take precautionary measures against electrostatic loading. Use explosion-proof apparatus and fittings. Isolate from sources of heat, sparks and open flame. Smoking, eating and drinking should be prohibited in application area. Keep container tightly closed. For personal protection see Section 8.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Use steel containers. Use stainless steel containers.

VCI storage category

VCI storage category

10

Combustible liquids, if not classified in LGK 3 A or 3 B



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Further information on storage conditions

Keep container tightly closed.

8. Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

General industrial hygiene practice. Avoid contact with eyes and skin.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Self-contained breathing apparatus.

Hand protection

The glove material must be sufficient impermeable and resistant to the substance. Check the tightness before wear. Gloves should be well cleaned before being removed, then stored in a well ventilated location.

Appropriate Material	Fluoro carbon rubber - FKM
Material thickness	0.4 mm
Penetrating time	> 480 min

Eye protection

Tightly fitting safety glasses

Body protection

protective overalls

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	colourless to yellow
Odour	weak
pH	
Remarks	Not applicable
Melting point	
Value	appr. -39 to -32 °C
Boiling point	
Value	appr. 390 °C
Pressure	1013 hPa
Flash point	
Value	appr. 212 °C
method	92/69/EEC, A.9
Flammability	
Not self inflammable	
Vapour pressure	
Value	< 0.01 hPa
Temperature	20 °C
Density	
Value	1.04 g/cm ³
Temperature	20 °C
Solubility in water	
Value	< 0.1 mg/l



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Temperature	20	°C
method	92/69/EEC, A.6	

Octanol/water partition coefficient (log Pow)

log Pow	> 6	
Temperature	22	°C

Ignition temperature

Value	appr. 500	°C
method	92/69/EEC, A.15	

Viscosity**kinematic**

Value	appr. 48		mm ² /s
Temperature	20	°C	
method	DIN 51562		

kinematic

Value	appr. 16		mm ² /s
Temperature	40	°C	
method	DIN 51562		

10. Stability and reactivity**10.2. Chemical stability**

No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Protect from contamination. Strong UV radiation. Protect from sun.

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

Toxic gases/vapours

11. Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

Species	rat		
LD50	> 2000		mg/kg
method	OECD 401		

Acute dermal toxicity

Species	rat		
LD50	> 2000		mg/kg
method	OECD 402		

Acute inhalational toxicity

Species	rat		
LC0	> 0.24		mg/l
method	OECD 403		

Skin corrosion/irritation

Species	rabbit		
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valuation method	slightly irritant OECD 404
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Serious eye damage/irritation

Species	rabbit
valuation method	non-irritant OECD 405

Sensitization

Species	guinea pig
valuation method	non-sensitizing OECD 406

Mutagenicity

valuation	Not considered mutagenic based on several in vitro and in vivo studies.
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Reproduction toxicity

Route of exposure	oral
Species	rat
Dose	150 mg/kg
Duration of exposure	20 d

Carcinogenicity

Remarks	No evidence available on carcinogenicity.
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Specific Target Organ Toxicity (STOT)**Repeated exposure**

Route of exposure	Oral
Organs:	Liver

12. Ecological information**12.1. Toxicity****Fish toxicity**

Species	zebra fish (Brachydanio rerio)
Duration of exposure	96 h
method	OECD 203

Daphnia toxicity

Species	Daphnia magna
Duration of exposure	48 h
method	OECD 202

Algae toxicity

Species	Skeletonema costatum
Duration of exposure	72 h

Bacteria toxicity

Species	Pseudomonas putida	
EC10	> 1000	mg/l

12.2. Persistence and degradability**Biodegradability**

Value	65	%
Duration of test	62	d
valuation	degradable	

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow)**

log Pow	> 6
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Temperature 22 °C

12.4. Mobility in soil

Mobility

Slightly mobile in soils

12.6. Other adverse effects

General information / ecology

Harmful to aquatic organisms.

13. Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information

Land transport ADR/RID

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.5. Environmental hazards

no

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

15. Regulatory information

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

16. Other information

R-phrases listed in chapter 3

53	May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.

Hazard statements listed in chapter 3

H304	May be fatal if swallowed and enters airways.
H413	May cause long lasting harmful effects to aquatic life.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.