

# SAFETY DATA SHEET

**EASTMAN**

According to REACH Regulation (EC) No 1907/2006, as amended by  
UK REACH Regulations SI 2019/758

## MARLOTHERM® LH Heat Transfer Fluid

PRD / SDSGB / EN / 0001

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2023
3.2	13.05.2025	150000114175	Date of first issue: 04.04.2019

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

#### 1.1 Product identifier

Trade name : MARLOTHERM® LH Heat Transfer Fluid

Product code : 34540-00, 50214254, P34540R0, P34540S2, P34540S1,  
P34540S5, E3454001, P3454002, P3454000, P34540P0,  
P34540P1, P34540P2

EC-No. : 248-654-8

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

Use of the Sub-  
stance/Mixture : Heat transfer fluids

Recommended restrictions : None known.  
on use

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

Company : Eastman Chemical Company  
200 South Wilcox Drive  
Kingsport TN 37660-5147

Telephone : +14232292000

E-mail address of person  
responsible for the SDS : Visit our website at [www.EASTMAN.com](http://www.EASTMAN.com) or email  
[emnmsds@eastman.com](mailto:emnmsds@eastman.com)

#### 1.4 Emergency telephone number

NCEC +44 (0)1235 239 670

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Skin irritation, Category 2	H315: Causes skin irritation.
Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters air- ways.

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Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms



Signal word

: Danger

Hazard statements

: H304      May be fatal if swallowed and enters airways.  
H315      Causes skin irritation.  
H360FD    May damage fertility. May damage the unborn child.  
H410      Very toxic to aquatic life with long lasting effects.

Precautionary statements

: **Prevention:**  
P201      Obtain special instructions before use.  
P273      Avoid release to the environment.  
P280      Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
**Response:**  
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.  
P391      Collect spillage.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

EC-No. : 248-654-8

#### Components

Chemical name	CAS-No. EC-No.	Concentration (% w/w)
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benzyl toluene	27776-01-8 248-654-8	>= 90 - <= 100
Dibenzylbenzene, ar-methyl derivative	53585-53-8 258-649-2	>= 1 - < 2.5

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- If inhaled : Move to fresh air.  
Treat symptomatically.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.  
Wash contaminated clothing before re-use.  
Get medical attention.  
Thoroughly clean shoes before reuse.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Call a physician or poison control centre immediately.  
Do NOT induce vomiting.  
If victim is fully conscious, give a cupful of water.  
Never give anything by mouth to an unconscious person.  
Hold person's head low, to prevent aspiration.

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

- Risks : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May damage fertility. May damage the unborn child.

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

- Treatment : Treat symptomatically.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : None known.

Hazardous combustion products : Hazardous decomposition products due to incomplete combustion  
  
Carbon oxides

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use a water spray to cool fully closed containers.  
Do not allow run-off from fire fighting to enter drains or water courses.  
  
None known.

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### SECTION 6: Accidental release measures

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

Personal precautions : Ventilate the area.  
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Avoid contact with skin and eyes.  
Material can create slippery conditions.  
Wear appropriate personal protective equipment.  
Local authorities should be advised if significant spillages cannot be contained.

#### 6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.  
Do not flush into surface water or sanitary sewer system.  
  
Avoid release to the environment.

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

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Use mechanical handling equipment.

Sweep up or vacuum up spillage and collect in suitable container for disposal.

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid inhalation of vapor or mist.  
Avoid contact with skin, eyes and clothing.  
Do not taste or swallow.  
Ensure adequate ventilation.  
Wash thoroughly after handling.

Advice on protection against fire and explosion : None known.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Keep in a cool place away from oxidizing agents.

Packaging material : Suitable material: Stainless steel, Steel (all types and surface treatments)

### 7.3 Specific end use(s)

Specific use(s) : Heat transfer fluids

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

##### Derived No Effect Level (DNEL)

Substance name	End Use	Exposure routes	Potential health effects	Value
benzyl toluene	Workers	Dermal	Long-term systemic effects	0.5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	3.5 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.87 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	0.25 mg/kg bw/day
	Dibenzylbenzene, ar-methyl derivative	Workers	Inhalation	Long-term systemic effects
	Workers	Dermal	Long-term systemic effects	0.37 mg/kg bw/day
	General Population	Inhalation	Long-term systemic effects	64.4 µg/m <sup>3</sup>
	General Population	Dermal	Long-term systemic effects	0.185 mg/kg bw/day
	General Population	Oral	Long-term systemic effects	18.5 µg/kg bw/day

##### Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
benzyl toluene	Sewage treatment plant	0.99 mg/l
	Fresh water sediment	331 mg/kg dry weight (d.w.)
	Marine sediment	331 mg/kg dry weight (d.w.)
	Soil	1 mg/kg dry weight (d.w.)
	food	11.1 mg/kg
	Dibenzylbenzene, ar-methyl derivative	Fresh water
	Marine water	0.014 µg/l
	Fresh water sediment	0.05 mg/kg dry weight (d.w.)
	Marine sediment	0.005 mg/kg dry weight (d.w.)
	Soil	2 mg/kg dry weight (d.w.)
	Sewage Treatment Plant	1000 mg/l

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### 8.2 Exposure controls

#### Engineering measures

Ensure adequate ventilation.

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles  
Safety glasses

Hand protection

Remarks : Wear suitable gloves.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Protective measures : Remove respiratory and skin/eye protection only after vapors have been cleared from the area.  
Ensure that eye flushing systems and safety showers are located close to the working place.  
Use personal protective equipment as required.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : very faint

Odour Threshold : not determined

pH : not determined

Melting point/freezing point : -80 - -70 °C  
(1,013 hPa)  
Method: OECD Test Guideline 102

Boiling point/boiling range : 280 - 290 °C (1,013 hPa)  
Method: DIN 53171

Flash point : 137 °C  
Method: Pensky-Martens closed cup

Evaporation rate : not determined

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Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	< 0.01 hPa (20 °C)
Relative vapour density	:	not determined
Relative density	:	0.995 (20 °C)
Solubility(ies) Water solubility	:	< 0.1 mg/l (20 °C)
Partition coefficient: n-octanol/water	:	Pow: 4.3 - 4.4 (20 °C) pH: 7
Auto-ignition temperature	:	510 °C Method: DIN 51794
Decomposition temperature	:	not determined
Viscosity Viscosity, kinematic	:	4.0 mm <sup>2</sup> /s (20 °C)
Explosive properties	:	Not classified
Oxidizing properties	:	Not classified

### 9.2 Other information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable at normal ambient temperature and pressure.

### 10.2 Chemical stability

No decomposition if stored normally.  
Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	Heating can release hazardous gases. Vapours may form explosive mixture with air. Stable
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### 10.4 Conditions to avoid

Conditions to avoid	:	Direct heating, dirt, chemical contamination, sunlight, UV or
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ionising radiation.  
Extremes of temperature and direct sunlight.

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hydrocarbons  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Benzene

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Remarks: No data available  
Acute inhalation toxicity : Remarks: No data available  
Acute dermal toxicity : Remarks: No data available

#### Components:

##### benzyl toluene:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg  
Assessment: Based on available data, the classification criteria are not met.

Acute inhalation toxicity : LC50 (Rat): > 1.88 mg/l  
Exposure time: 4 h  
Method: Acute inhalation toxicity  
Assessment: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg  
Method: Acute Dermal Toxicity  
Assessment: Based on available data, the classification criteria are not met.

##### Dibenzylbenzene, ar-methyl derivative:

Acute oral toxicity : LD50 Oral (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: Based on available data, the classification criteria are not met.

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Acute inhalation toxicity : LC0: > 0.24 mg/l  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: Based on available data, the classification criteria are not met.

Acute dermal toxicity : LD0 (Rabbit): > 2,000 mg/kg  
Assessment: Based on available data, the classification criteria are not met.

LD50 (Rat): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: Based on available data, the classification criteria are not met.

### Skin corrosion/irritation

Causes skin irritation.

#### Product:

Remarks : Causes skin irritation.

#### Components:

##### benzyl toluene:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : irritating  
Remarks : Causes skin irritation.

##### Dibenzylbenzene, ar-methyl derivative:

Method : OECD Test Guideline 404  
Result : slight irritation  
Remarks : Based on available data, the classification criteria are not met.

### Serious eye damage/eye irritation

Not classified based on available information.

#### Product:

Remarks : No data available

#### Components:

##### benzyl toluene:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : slight irritation

##### Dibenzylbenzene, ar-methyl derivative:

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Method : OECD Test Guideline 405  
Result : No eye irritation  
Remarks : Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

#### Product:

Remarks : No data available

#### Components:

##### benzyl toluene:

Test Type : Buehler Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : non-sensitizing

##### Dibenzylbenzene, ar-methyl derivative:

Species : Guinea pig  
Result : Does not cause skin sensitization.

### Germ cell mutagenicity

Not classified based on available information.

#### Components:

##### benzyl toluene:

Genotoxicity in vitro : Result: In vitro tests did not show mutagenic effects  
Genotoxicity in vivo : Result: In vivo tests did not show mutagenic effects

##### Dibenzylbenzene, ar-methyl derivative:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects  
Genotoxicity in vivo : Remarks: In vivo tests did not show mutagenic effects

### Carcinogenicity

Not classified based on available information.

#### Product:

Remarks : This information is not available.

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### Components:

#### **benzyl toluene:**

Remarks : no evidence of carcinogenic activity

#### **Dibenzylbenzene, ar-methyl derivative:**

Remarks : Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

May damage fertility. May damage the unborn child.

### Product:

Effects on fertility : Remarks: No data available

### Components:

#### **benzyl toluene:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 120 milligram per kilogram  
General Toxicity F1: NOAEL: 750 milligram per kilogram  
Remarks: May damage fertility. May damage the unborn child.

#### **Dibenzylbenzene, ar-methyl derivative:**

Effects on fertility : Species: Rat, male and female  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 250 mg/kg bw/day  
General Toxicity F1: NOAEL: 250 mg/kg bw/day  
General Toxicity F2: NOAEL: 80 mg/kg body weight  
Method: OECD Test Guideline 421  
Remarks: May damage fertility. May damage the unborn child.

Effects on foetal development : Test Type: Developmental Toxicity  
Species: Rabbit, female  
Strain: NZW  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 75 mg/kg body weight  
Developmental Toxicity: LOAEL: 10 mg/kg body weight  
Method: OECD Test Guideline 414

#### **STOT - single exposure**

Not classified based on available information.

### Product:

Remarks : No data available

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### Components:

#### **benzyl toluene:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **Dibenzylbenzene, ar-methyl derivative:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **STOT - repeated exposure**

Not classified based on available information.

### Product:

Remarks : No data available

### Components:

#### **benzyl toluene:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Dibenzylbenzene, ar-methyl derivative:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### **Repeated dose toxicity**

### Components:

#### **benzyl toluene:**

Species : Rat  
NOAEL : 50 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 408  
Target Organs : Liver

#### **Dibenzylbenzene, ar-methyl derivative:**

Species : Rat  
NOAEL : 50 mg/kg  
LOAEL : 500 mg/kg  
Application Route : Oral  
Exposure time : 120 d  
Method : OECD Test Guideline 408  
Target Organs : Liver

#### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

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### **Product:**

No aspiration toxicity classification

### **Components:**

#### **benzyl toluene:**

May be fatal if swallowed and enters airways.

### **Experience with human exposure**

#### **Product:**

Inhalation	:	Remarks: None known.
Skin contact	:	Remarks: Causes skin irritation.
Eye contact	:	Remarks: None known.
Ingestion	:	Remarks: May be fatal if swallowed and enters airways.

### **Further information**

#### **Components:**

#### **Dibenzylbenzene, ar-methyl derivative:**

Remarks : Not expected to have a wide dispersive use and there is no evidence of frequent or long-term human exposure. The substance has been shown to be not genotoxic, therefore it is not expected to have a carcinogenic potential.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

#### **benzyl toluene:**

Toxicity to fish	:	(Danio rerio (zebra fish)): Exposure time: 96 h Test Type: OECD Test Guideline 203 Remarks: Aquatic toxicity is unlikely due to low solubility.
Toxicity to daphnia and other aquatic invertebrates	:	(Daphnia magna (Water flea)): Exposure time: 48 h Test Type: static test Remarks: No toxicity at the limit of solubility
Toxicity to algae/aquatic plants	:	(Pseudokirchneriella subcapitata (microalgae)): Exposure time: 72 h Test Type: Alga, Growth Inhibition Test Remarks: No toxicity at the limit of solubility

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- Toxicity to microorganisms : EC10 (*Pseudomonas putida*): > 990 mg/l  
End point: Growth rate  
Exposure time: 5 h  
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : Remarks: No toxicity at the limit of solubility
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : Remarks: No toxicity at the limit of solubility
- Toxicity to soil dwelling organisms : LC50: 16.5 mg/kg  
Exposure time: 14 d  
Species: *Eisenia fetida* (earthworms)  
Method: OECD Test Guideline 317
- Plant toxicity : EC50: > 100 mg/kg  
End point: Growth inhibition  
Test period: 20 d  
Species: *Triticum aestivum* (wheat)  
Method: OECD Test Guideline 208
- Toxicity to terrestrial organisms : Remarks: Not applicable

### Dibenzylbenzene, ar-methyl derivative:

- Toxicity to fish : (*Danio rerio* (zebra fish)): > 0.05 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: Fish, Acute Toxicity Test
- Toxicity to daphnia and other aquatic invertebrates : LC50 (*Daphnia magna* (Water flea)): > 0.029 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Test Type: *Daphnia* sp. Acute Immobilisation Test
- Toxicity to algae/aquatic plants : LC50 (*Skeletonema costatum* (marine diatom)): > 0.016 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Test Type: Alga, Growth Inhibition Test
- Toxicity to fish (Chronic toxicity) : NOEC: 0.0055 mg/l  
End point: see user defined free text  
Exposure time: 32 d  
Species: *Pimephales promelas* (fathead minnow)  
Test Type: Fish, Early-Life Stage Toxicity Test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.0014 mg/l  
Exposure time: 21 d  
Species: *Daphnia magna* (Water flea)  
Test Type: *Daphnia magna* Reproduction Test

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M-Factor (Chronic aquatic toxicity) : 10

### 12.2 Persistence and degradability

#### Components:

##### **benzyl toluene:**

Biodegradability : Result: Inherently biodegradable.  
Kinetic:  
28 d: < 60 %  
Remarks: Inherently biodegradable

### 12.3 Bioaccumulative potential

#### Components:

##### **benzyl toluene:**

Bioaccumulation : Bioconcentration factor (BCF): 344  
Method: calculated  
Remarks: Does not significantly accumulate in organisms.

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture 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.

#### Components:

##### **benzyl toluene:**

Additional ecological information : May cause long lasting harmful effects to aquatic life.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.

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### SECTION 14: Transport information

#### 14.1 UN number

ADR : UN 3082  
IMDG : UN 3082  
IATA : UN 3082

#### 14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(benzyl toluene)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(benzyl toluene)  
IATA : Environmentally hazardous substance, liquid, n.o.s.  
(benzyl toluene)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADR	: 9	
IMDG	: 9	
IATA	: 9	

#### 14.4 Packing group

ADR  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)

IMDG  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG  
(solids) may lead to a non-regulated classification.

#### IATA (Cargo)

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Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG (solids) may lead to a non-regulated classification.

### IATA (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous  
Remarks : Shipping in package sizes of less than 5 L (liquids) or 5 KG (solids) may lead to a non-regulated classification.

### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable

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UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) E1 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

### The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : On the inventory, or in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

### 15.2 Chemical safety assessment

yes

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## SECTION 16: Other information

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

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- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information :

Other means of identification  
Dibenzylbenzene, ar-methyl derivative

Sources of key data used to compile the Safety Data Sheet : Chemical Safety Report

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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## Annex: Exposure Scenarios

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