

\* BÜFA®-Paraffine Solution 10

Date revised: 04.01.2024

# 74200820105

Version: 5 / GB

Master No. M-401

Print date: 15.07.2024

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

### **1.1. Product identifier**

**Trade name**

BÜFA®-Paraffine Solution 10

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

**Use of the substance/mixture**

Auxiliary

**Uses advised against**

SU21

Consumer uses: Private households (= general public = consumers)

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

**Address**

BÜFA Composite Systems GmbH &amp; Co. KG

Hohe Looge 2-8

26180 Rastede

Telephone no. +49 4402 975-0

Fax no. +49 4402 975-400

Information provided Department product safety / +49 4402 975-415

by / telephone

E-Mail produktsicherheit-bcs@buefa.de

### **1.4. Emergency telephone number**

Giftzentrale Goettingen: +49 551 19240

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

### **2.1. Classification of the substance or mixture**

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

Flam. Liq. 3 H226

Acute Tox. 4 H332

Skin Irrit. 2 H315

Eye Irrit. 2 H319

Repr. 2 H361d

STOT SE 3 H335

STOT RE 1 H372

Asp. Tox. 1 H304

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **Labelling according to regulation (EC) No 1272/2008**

**Labelling according to regulation (EC) No 1272/2008****Hazard pictograms****Signal word**

Danger

**Hazard statements**

H226

Flammable liquid and vapour.

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H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210.9	Keep away from sparks, open flames and other ignition sources. No smoking.
P260.8	Do not breathe vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P331	Do NOT induce vomiting.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains \*\*\* styrene; reaction mass of ethylbenzene and xylene

**2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**SECTION 3: Composition/information on ingredients \*\*\*****3.2. Mixtures****Hazardous ingredients \*\*\*****styrene**

CAS No.	100-42-5
EINECS no.	202-851-5
Registration no.	01-2119457861-32-XXXX
Concentration	>= 29 < 50 %
Flam. Liq. 3	H226
Skin Irrit. 2	H315
Acute Tox. 4	H332
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 1	H372 Organs: Ear; Route of exposure: inhalative
Asp. Tox. 1	H304
Repr. 2	H361d
Aquatic Chronic 3	H412

cATpE inhalative, Dust/Mist 1,5 mg/l

ATE inhalative, Vapors 11,8 mg/l

Additional remarks:

CLP Regulation (EC) No 1272/2008, Annex VI, Note D

**reaction mass of ethylbenzene and xylene**

EINECS no.	905-588-0
Registration no.	01-2119539452-40 ; 01-2119486136-34
Concentration	>= 29 < 44 %
Skin Irrit. 2	H315
Flam. Liq. 3	H226
Acute Tox. 4	H332

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Acute Tox. 4	H312
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

ATE	dermal	1.700	mg/kg
cATpE	inhalative, Dust/Mist	1,5	mg/l
cATpE	inhalative, Vapors	11	mg/l

**toluene**

CAS No.	108-88-3
EINECS no.	203-625-9
Concentration	>= 0,1 < 1 %
Flam. Liq. 2	H225
Asp. Tox. 1	H304
Skin Irrit. 2	H315
Repr. 2	H361d
STOT SE 3	H336
STOT RE 2	H373

Complete text of hazard statements in chapter 16

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

Adhere to personal protective measures when giving first aid. Remove soiled or soaked clothing immediately, do not allow to dry. If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Remove the casualty into fresh air and keep him calm. Irregular breathing/no breathing: artificial respiration. In the event of symptoms take medical treatment.

**After skin contact**

Wash off immediately 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. Seek medical advice immediately. Remove contact lenses

**After ingestion**

Rinse mouth thoroughly with water. Summon a doctor immediately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If individual is drowsy or unconscious place in recovery position (on left side, with head down).

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

The following symptoms may occur: Headache, Dizziness, Nausea, Dizziness

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

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam, Dry powder, Carbon dioxide

**Non suitable extinguishing media**

Full water jet

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

In case of combustion evolution of dangerous gases possible. In the event of fire the following can be released: Carbon monoxide (CO); Nitrogen oxides (NOx); dense black smoke

## 5.3. Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

# SECTION 6: Accidental release measures

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

Avoid contact with skin, eyes and clothing. Use personal protective clothing. Keep away sources of ignition. Ensure adequate ventilation. Use breathing apparatus if exposed to vapours/dust/aerosol.

## 6.2. Environmental precautions

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Pick up with absorbent material (eg sand, kieselgur, acid binder, universal binder, sawdust). When picked up, treat material as prescribed under Section 13 "Disposal".

## 6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

# SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid formation of aerosols. Observe the usual precautions for handling chemicals.

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

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

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

## 7.3. Specific end use(s)

No information available

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure limit values

#### styrene

List	EH40			
Type	WEL			
Value	430	mg/m <sup>3</sup>	100	ppm(V)
Short term exposure limit	1080	mg/m <sup>3</sup>	250	ppm(V)

### Derived No/Minimal Effect Levels (DNEL/DMEL)

#### styrene

DNEL				
Conditions	Worker	Acute	inhalative	Systemic effects
Concentration	289	mg/m <sup>3</sup>		

DNEL

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Conditions Concentration	Worker 85	Long term mg/m <sup>3</sup>	inhalative	Systemic effects
DNEL Conditions Concentration	Worker 306	Acute mg/m <sup>3</sup>	inhalative	Local effects
DNEL Conditions Concentration	Worker 406	Long term mg/kg/d	dermal	Systemic effects

**reaction mass of ethylbenzene and xylene**

DNEL Conditions Concentration	Worker 221	Long term mg/m <sup>3</sup>	inhalative	Systemic effects
Most sensitive endpoint: neurotoxicity				
DNEL Conditions Concentration	Worker 442	Acute mg/m <sup>3</sup>	inhalative	Systemic effects
Most sensitive endpoint: neurotoxicity				
DNEL Conditions Concentration	Worker 221	Long term mg/m <sup>3</sup>	inhalative	Local effects
Most critical endpoint: irritation (respiratory tract)				
DNEL Conditions Concentration	Worker 442	Acute mg/m <sup>3</sup>	inhalative	Local effects
Most critical endpoint: irritation (respiratory tract)				
DNEL Conditions Concentration	Worker 212	Long term mg/pers on/d	dermal	Systemic effects
Most sensitive endpoint: neurotoxicity				

**Predicted No Effect Concentration (PNEC)****reaction mass of ethylbenzene and xylene**

Type of value	PNEC		
Type	freshwater		
Concentration		0,327	mg/l
Type of value	PNEC		
Type	freshwater sediment		
Concentration		12,46	mg/kg
Type of value	PNEC		
Type	marine water		
Concentration		0,327	mg/l
Type of value	PNEC		
Type	marine sediment		
Concentration		12,46	mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		

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Concentration	6,58	mg/l
Type of value	PNEC	
Type	Soil	
Concentration	2,31	mg/kg

**8.2. Exposure controls****Appropriate engineering controls**

Use only in well ventilated areas.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**General protective and hygiene measures**

Provide good ventilation of working area (local exhaust ventilation if necessary). Avoid contact with skin and eyes. Do not inhale gases/vapours/aerosols. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards.

**Respiratory protection**

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, Filter A; Self-contained breathing apparatus. Respiratory protection must comply with DIN EN 136 / DIN EN 140 / DIN EN 143 / DIN EN 149.

**Hand protection**

Chemical resistant gloves

Appropriate Material Butyl rubber

Material thickness 0,7 mm

Breakthrough time = 30 min

Hand protection must comply with EN 374.

**Eye protection**

Tightly fitting safety glasses; Eye protection must comply with EN ISO 16321-1:2022.

**Body protection**

Clothing as usual in the chemical industry. Wear protective clothing according to EN 13034: 2005 + A1: 2009.

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

<b>Form</b>	liquid
<b>Colour</b>	colourless to yellowish
<b>Odour</b>	of styrene
<b>Melting point</b>	
Remarks	Not applicable
<b>Freezing point</b>	
Remarks	Not applicable
<b>Boiling point</b>	
Value	145 °C
Remarks	Information refers to the main component.
<b>Flammability</b>	
No data available	
<b>Explosion limits</b>	
Lower explosion limit	1,1 to 6,1 %(V)
Remarks	Information refers to the main component.
<b>Flash point</b>	
Value	30,5 °C
Method	ISO 13736

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**Auto-ignition temperature**

Value 490 °C  
 Remarks Information refers to the main component.  
 Styrol

**Thermal decomposition**

Remarks No data available

**Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)**

Remarks Not applicable

**pH value**

Remarks Not applicable

**Solubility in other solvents**

Value 320 mg/l  
 25 °C  
 Remarks Information refers to the main component.  
 Source Manufacturer's data

**Octanol/water partition coefficient (log Pow)**

Remarks No data available

**Vapour pressure**

Value 6,67 hPa  
 Temperature 20 °C  
 Remarks Information refers to the main component.

**Density**

Value 0,85 g/cm<sup>3</sup>  
 Temperature 20 °C  
 Method DIN ISO 3507

**Vapour density**

Remarks No data available

**Particle characteristics**

Remarks Not applicable

**9.2. Other information****Efflux time**

Value 10 s  
 Temperature 23 °C  
 Method DIN EN ISO 2431 - 6 mm

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

No hazardous reactions when stored and handled according to prescribed instructions.

**10.2. Chemical stability**

The product is stable.

**10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4. Conditions to avoid**

Protect from heat and direct sunlight.

**Thermal decomposition**

Remarks No data available

**10.5. Incompatible materials**

Reactions with peroxides and other radical components.

**10.6. Hazardous decomposition products**

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No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity

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

#### Acute oral toxicity (Components)

##### styrene

Species	rat		
LD50	>	5000	mg/kg

##### reaction mass of ethylbenzene and xylene

Species	rat		
LD50		4300	mg/kg

#### Acute dermal toxicity

ATE	4.341	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

#### Acute dermal toxicity (Components)

##### styrene

Species	rat		
LD50	>	5000	mg/kg

##### reaction mass of ethylbenzene and xylene

Species	rat		
LD50	>	1700	mg/kg

#### Acute inhalational toxicity

ATE	12,83	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	1,68	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

The classification criteria are met.

#### Acute inhalative toxicity (Components)

##### styrene

Species	rat		
LC50		11,8	mg/l
Duration of exposure	4	h	
Administration/Form	Vapors		

##### reaction mass of ethylbenzene and xylene

Species	rat		
LC50		21,7	mg/l
Duration of exposure	4	h	

#### Skin corrosion/irritation

evaluation	irritant
------------	----------

The classification criteria are met.

#### Skin corrosion/irritation (Components)

##### reaction mass of ethylbenzene and xylene

evaluation	irritant
------------	----------

Irritating effects on the skin and mucous membrane.

#### Serious eye damage/irritation

evaluation	irritant
------------	----------

The classification criteria are met.



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**Serious eye damage/irritation (Components)****reaction mass of ethylbenzene and xylene**

evaluation

irritant - risk of serious damage to eyes

**Sensitization**

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

**Sensitization (Components)****reaction mass of ethylbenzene and xylene**

evaluation

non-sensitizing

**Mutagenicity**

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

**Reproductive toxicity**

evaluation

Suspected of damaging the unborn child.

The classification criteria are met.

**Carcinogenicity**

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

**Specific Target Organ Toxicity (STOT)****Single exposure**

The classification criteria are met.

evaluation

May cause respiratory irritation.

**Repeated exposure**

The classification criteria are met.

evaluation

Causes damage to organs through prolonged or repeated exposure

**Specific Target Organ Toxicity (STOT) (Components)****styrene****Repeated exposure**

evaluation

Causes damage to organs through prolonged or repeated exposure

Route of exposure inhalative

Organs: Ear

**Aspiration hazard**

The classification criteria are met.

Harmful: may cause lung damage if swallowed.

**11.2. Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Other information**

Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity****styrene**

LC/EC/IC50

&gt;

1,0

to

10

mg/l

**reaction mass of ethylbenzene and xylene**

Species

rainbow trout (Oncorhynchus mykiss)

LC50

2,6

mg/l

Duration of exposure

96

h

Species

rainbow trout (Oncorhynchus mykiss)

NOEC

&gt;

1,3

mg/l

Duration of exposure

56

Days

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**Daphnia toxicity****styrene**

Species	Daphnia magna
LC/EC/IC50	> 1,0 to 10 mg/l

**reaction mass of ethylbenzene and xylene**

Species	Daphnia magna
EC50	1 mg/l
Duration of exposure	24 h
Species	Daphnia dubia
NOEC	1,17 mg/l
Duration of exposure	7 Days

**Algae toxicity****styrene**

LC/EC/IC50	> 1,0 to 10 mg/l
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**reaction mass of ethylbenzene and xylene**

Species	Pseudokirchneriella subcapitata
EC50	2,2 mg/l
Duration of exposure	72 h
Species	Pseudokirchneriella subcapitata
NOEC	0,44 mg/l
Duration of exposure	73 h

**Bacteria toxicity****reaction mass of ethylbenzene and xylene**

Species	activated sludge
EC50	> 157 mg/l
Duration of exposure	3 h

**12.2. Persistence and degradability**

For this subsection there is no ecotoxicological data available on the product as such.

**Biodegradability****styrene**

evaluation	Readily biodegradable (according to OECD criteria)
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**reaction mass of ethylbenzene and xylene**

evaluation	good degradability
Remarks	The product is highly volatile and can be largely eliminated from the water by stripping.

**12.3. Bioaccumulative potential**

For this subsection there is no ecotoxicological data available on the product as such.

**Octanol/water partition coefficient (log Pow)**

Remarks	No data available
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**reaction mass of ethylbenzene and xylene**

BCF	25,9
Remarks	Bioaccumulation is not expected.

**12.4. Mobility in soil**

For this subsection there is no ecotoxicological data available on the product as such.

**reaction mass of ethylbenzene and xylene**

Will not adsorb on soil.

**12.5. Results of PBT and vPvB assessment****Evaluation of persistence and bioaccumulation potential**

The product contains no PBT substances  
The product contains no vPvB substances.

**12.6 Endocrine disrupting properties**

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**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

For this subsection there is no ecotoxicological data available on the product as such.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**



EWC waste code 07 02 08\* other still bottoms and reaction residues

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

**Disposal recommendations for packaging**

Packaging that cannot be cleaned should be disposed off as product waste.

**SECTION 14: Transport information \*\*\***

	Land transport ADR/RID ***	Marine transport IMDG/GGVSee ***
14.1. UN number	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (styrene, reaction mass of ethylbenzene and xylene)	FLAMMABLE LIQUID, N.O.S. (styrene, reaction mass of ethylbenzene and xylene)
14.3. Transport hazard class(es)	3	3
14.4. Packing group	III	III
Label		
14.5. Environmental hazards	-	
Limited Quantity		5 l
Limited Quantity	5 l	
Transport category	3	
Tunnel restriction code	D/E	
Hazard id. no.	30	
EmS		F-E, S-E

**Information for all modes of transport****14.6. Special precautions for user**

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Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Other information****14.7. Maritime transport in bulk according to IMO instruments**

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Major-accident categories acc. 2012/18/EU**

Category	P5c	FLAMMABLE LIQUID
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**VOC**

VOC (EU)	40	%
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**Other information**

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information****Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

Flam. Liq. 3	H226	On basis of test data
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Repr. 2	H361d	Calculation method
STOT SE 3	H335	Calculation method
STOT RE 1	H372	Calculation method
Asp. Tox. 1	H304	Calculation method
Aquatic Chronic 3	H412	Calculation method

**Hazard statements listed in Chapter 2/3**

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

**CLP categories listed in Chapter 2/3**

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1

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STOT RE 2

Specific target organ toxicity - repeated exposure, Category 2

STOT SE 3

Specific target organ toxicity - single exposure, Category 3

**Abbreviations**

ATE: Acute Toxicity Estimates

CAS: Chemical Abstracts Service

cATpE: Converted acute toxicity point estimate

EAK: Europäischer Abfallkatalog

EINECS: European Inventory of Existing Commercial Chemical Substances

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

VOC: Volatile Organic Compound

**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.