

\* BÜFA®-Paraffine Solution 10

Date revised: 01.09.2017

# 74200820015

Version: 1 / DK

Master No. M-402

Print date: 30.01.19

## **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

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

#### **Address**

BÜFA Composite Systems

GmbH &amp; Co. KG Hohe Looge 2-8

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-compositesystems@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

STOT SE 3 H335

STOT RE 1 H372

Asp. Tox. 1 H304

Repr. 2 H361d

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.

### **2.2. Label elements**

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

#### **Hazard pictograms**



#### **Signal word**

Danger

#### **Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

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H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure:
H304	May be fatal if swallowed and enters airways.
H361d	Suspected of damaging the unborn child.
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;Xylene

**2.3. Other hazards**

The product does not contain PBT/vPvB-substances.

**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
Asp. Tox. 1	H304
Repr. 2	H361d
Aquatic Chronic 3	H412

Organs: Ear; Route of exposure: inhalative

**Xylene**

CAS No.	1330-20-7
EINECS no.	215-535-7
Registration no.	01-2119488216-32-XXXX
Concentration	>= 30 < 50 %
Skin Irrit. 2	H315
Flam. Liq. 3	H226
Acute Tox. 4	H332
Acute Tox. 4	H312
Eye Irrit. 2	H319
STOT SE 3	H335
STOT RE 2	H373
Asp. Tox. 1	H304

Complete text of hazard statements in chapter 16

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## **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**

After contact with skin, wash immediately with plenty of water.

#### **After eye contact**

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. 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

### **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 (NO<sub>x</sub>); 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**

Remove persons to safety. 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".

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#### 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 precautionary measures against static discharge. 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	GV			
Value	105	mg/m <sup>3</sup>	25	ppm(V)
Maximum limit value; Skin resorption / sensibilisation: H; Pregnancy group; Status: 2012; Remarks: L				

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

##### Styrene

Reference substance	Styrene			
DNEL				
Conditions	Worker	Acute	inhalative	Systemic effects
Concentration	289	mg/m <sup>3</sup>		
DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	85	mg/m <sup>3</sup>		
DNEL				
Conditions	Worker	Acute	inhalative	Local effects
Concentration	306	mg/m <sup>3</sup>		
DNEL				
Conditions	Worker	Long term	dermal	Systemic effects
Concentration	406	mg/kg/d		

##### Xylene

DNEL				
Conditions	Worker	Short term	inhalative	Systemic effects
Concentration	289	mg/m <sup>3</sup>		
DNEL				
Conditions	Worker	Short term	inhalative	Local effects
Concentration	289	mg/m <sup>3</sup>		

DNEL

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Conditions	Worker	Lifetime	dermal	Systemic effects
Concentration	180	mg/kg		

DNEL				
Conditions	Worker	Lifetime	inhalative	Systemic effects
Concentration	77	mg/m <sup>3</sup>		

## 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 Council Directive 89/686/EEC 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

### Hand protection

Chemical resistant gloves

Appropriate Material	Butyl rubber		
Material thickness	0,7	mm	
Breakthrough time	= 30	min	

### Eye protection

Tightly fitting safety glasses

### Body protection

Clothing as usual in the chemical industry.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Form</b>	liquid		
<b>Colour</b>	colourless		
<b>Odour</b>	of styrene		
<b>Odour threshold</b>			
Remarks	No data available		
<b>pH value</b>			
Remarks	No data available		
<b>Melting point</b>			
Remarks	No data available		
<b>Freezing point</b>			
Remarks	No data available		
<b>Boiling point</b>			
Remarks	No data available		
<b>Flash point</b>			
Value	30,5	°C	
<b>Evaporation rate</b>			
Remarks	No data available		
<b>Efflux time</b>			
Value	10	s	
Method	DIN EN ISO 2431 - 6 mm		

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**Flammability**

No data available

**Explosion limits**

Remarks No data available

**Vapour pressure**

Remarks No data available

**Vapour density**

Remarks No data available

**Density**Value 0,85 g/cm<sup>3</sup>

Temperature 20 °C

**Solubility in water**

Remarks No data available

**Solubility in other solvents**

Remarks No data available

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

Remarks No data available

**Ignition temperature**

Remarks No data available

**Auto-ignition temperature**

Remarks No data available

**Thermal decomposition**

Remarks No data available

**Explosive properties**

evaluation no data

**Oxidising properties**

Remarks No data available

**9.2. Other information**

No information available.

**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.

**10.5. Incompatible materials**

Reactions with acids and strong oxidising agents. Reactions with peroxides and other radical components.

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

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**Acute oral toxicity**

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

**Acute dermal toxicity**

ATE	4.250	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

**Acute inhalational toxicity**

ATE	12,7	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	1,67	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	

The classification criteria are met.

**Skin corrosion/irritation**

evaluation	irritant
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The classification criteria are met.

**Serious eye damage/irritation**

evaluation	irritant
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The classification criteria are met.

**Sensitization**

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

**Sensitization (Components)**

<b>Styrene</b>	
evaluation	non-sensitizing

<b>Xylene</b>	
evaluation	non-sensitizing

**Mutagenicity**

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

**Carcinogenicity**

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

**Reproductive toxicity**

evaluation	Suspected of damaging the unborn child.
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The classification criteria are 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

**Aspiration hazard**

The classification criteria are met.  
Harmful: may cause lung damage if swallowed.

**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**

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**Styrene**

LC/EC/IC50 &gt; 1,0 to 10 mg/l

**Xylene**

LC50 2,6 mg/l

Duration of exposure 96 h

NOEC &gt; 1,3 mg/l

Duration of exposure 56 Days

**Daphnia toxicity****Styrene**

Species Daphnia magna

LC/EC/IC50 &gt; 1,0 to 10 mg/l

**Xylene**

Species Daphnia magna

EC50 1 mg/l

Duration of exposure 48 h

Species Daphnia magna

NOEC 0,96 mg/l

Duration of exposure 7 Days

**Algae toxicity****Styrene**

LC/EC/IC50 &gt; 1,0 to 10 mg/l

**Xylene**

EC50 2,2 mg/l

Duration of exposure 72 h

**Bacteria toxicity**

No toxicological data are available.

**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)

**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

**12.4. Mobility in soil**

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

**12.5. Results of PBT and vPvB assessment**

The product does not contain PBT/vPvB-substances.

**12.6. 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 04\* other organic solvents, washing liquids and mother liquors



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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****14.1. UN number**

UN number 1993

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, N.O.S., (Styrene, Xylene)

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group	III
Tunnel restriction code	D/E

**Marine transport IMDG/GGVSee****14.1. UN number**

UN number 1993

**14.2. UN proper shipping name**

FLAMMABLE LIQUID, N.O.S. (Styrene, Xylene)

**14.3. Transport hazard class(es)**

Class 3

**14.4. Packing group**

Packing group	III
EmS	F-E, S-E

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

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

**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****VOC**

VOC (EU)	40	%
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**Major-accident categories acc. 2012/18/EU**

Category	P5c	FLAMMABLE LIQUID
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**Other information**

The product does not contain substances of very high concern (SVHC).

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information****Hazard statements listed in Chapter 3**

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.

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H335	May cause respiratory irritation.
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.

**Abbreviations**

CAS: Chemical Abstracts Service  
 EAK: Europäischer Abfallkatalog  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 vPvB: Very persistent and very bioaccumulative  
 vPvB: Very persistent and very bioaccumulative  
 VOC: Volatile Organic Compound

**CLP categories listed in Chapter 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. 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
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

**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.