

\* BÜFA®-VE-Tooling-Gelcoat-H-XXXX (COLOURED)

Date revised: 01.09.2017

# 7202XXXX Version: 1 / GB Master No. M-401 Print date: 16.01.18

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

#### 1.1. Product identifier

#### Trade name

BÜFA®-VE-Tooling-Gelcoat-H-XXXX (COLOURED)

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

#### Use of the substance/mixture

Purpose of use: Raw substance formulas for manufacturing shaped parts from unsaturated polyester / vinyl ester resins.

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

#### **Address**

BÜFA Composite Systems

GmbH & 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

Euroresins UK LTD.: +44 151 34 88 800

### **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 Organs: Ear; Route of exposure: inhalative

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.



BÜFA®-VE-Tooling-Gelcoat-l	•				Drint data: 40.04		
7202XXXX	Version: 1 / GB	Mast	er No. M-4	01	Print date: 16.01.1		
H319	Causes serious eye	irritation.					
H361d		Suspected of damaging the unborn child.					
H335	May cause respirato						
H372		Causes damage to organs through prolonged or repeated exposure:					
11072	Ear; Route of expos			od of Topodi	οα οπροσαίο.		
H412	Harmful to aquatic li			rts			
Sensitising substanc	•	ic with long	lasting circ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
_		vanaata)					
EUH208 Contains	cobalt bis(2-ethylhe	xanoale)					
EUH208 Contains	Octabenzone						
May produce an alle	ergic reaction.						
Precautionary statem	ents						
P210.9	Keep away from spa	arks, open fla	ames and o	ther ignition	sources. No smoking.		
P260.8		Keep away from sparks, open flames and other ignition sources. No smoking. Do not breathe vapours/spray.					
P280			e clothing/e	ve protectio	n/face protection.		
P304+P340		Wear protective gloves/protective clothing/eye protection/face protection.  IF INHALED: Remove person to fresh air and keep comfortable for breathing.					
P305+P351+P338		IF INFALED. Remove person to fresh all and keep conflortable for breathing.  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact					
1 00011 00111 000	lenses, if present ar	•			dissi itamata santasi		
P308+P313	IF exposed or conce						
	•						
•	nt(s) to be indicated or		ulation (EC	) No. 12/2/	2008)		
contains	Styrene;2-Phenylpro	opene					
2.3. Other hazards The product does n	ot contain PBT/vPvB-su	ıbstances.					
р							
FCTION 3: Compos	ition/information	on ingre	dients				
	<u>ition/information</u>	on ingre	<u>dients</u>				
3.2. Mixtures	<u>ition/information</u>	on ingre	<u>dients</u>				
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3.2. Mixtures Hazardous ingredient		on ingre	<u>dients</u>				
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3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no.	ts 100-42-5 202-851-5 01-2119457861-32-						
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration	100-42-5 202-851-5 01-2119457861-32- >= 30		<b>dients</b> 50	%			
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3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration	100-42-5 202-851-5 01-2119457861-32- >= 30	xxxx		%			
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315	xxxx		%			
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332	xxxx		%			
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319	xxxx		%			
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335	XXXX <	50				
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs	xxxx	50				
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs H304	XXXX <	50				
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1 Repr. 2	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs H304 H361d	XXXX <	50				
3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs H304	XXXX <	50				
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3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1 Repr. 2 Aquatic Chronic 3  2-Phenylpropene CAS No.	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs H304 H361d H412	XXXX <	50				
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3.2. Mixtures Hazardous ingredient Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1 Repr. 2 Aquatic Chronic 3  2-Phenylpropene CAS No. EINECS no. Registration no.	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs H304 H361d H412  98-83-9 202-705-0 01-2119472426-35-	XXXX < s: Ear; Route	50 of exposur	e: inhalative			
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Styrene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Skin Irrit. 2 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 STOT RE 1 Asp. Tox. 1 Repr. 2 Aquatic Chronic 3  2-Phenylpropene CAS No. EINECS no. Registration no. Concentration Flam. Liq. 3 Eye Irrit. 2 STOT SE 3	100-42-5 202-851-5 01-2119457861-32- >= 30 H226 H315 H332 H319 H335 H372 Organs H304 H361d H412  98-83-9 202-705-0 01-2119472426-35- >= 1 H226 H319 H335	XXXX < s: Ear; Route	50 of exposur	e: inhalative			
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# 7202XXXX	Version: 1/GB	Ма	ster No. M	l-401	Print date: 16.01.18
Registration no. Concentration Repr. 2 Skin Sens. 1 Eye Irrit. 2 Aquatic Acute 1 Aquatic Chronic 3	01-2119524678-29 >= 0,1 H361f H317 H319 H400 H412	<	1	%	
Octabenzone CAS No. EINECS no. Registration no. Concentration Skin Sens. 1 Aquatic Chronic 3	1843-05-6 217-421-2 01-2119557833-30-00 >= 0,1 H317 H412	000 <	1	%	

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.

#### 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

#### 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 (NOx); dense black smoke

#### 5.3. Advice for firefighters

Use self-contained breathing apparatus.



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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). 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**

2-Phenylpropene

List EH40 Type WEL

Value 246 mg/m<sup>3</sup> 50 ppm(V) ppm(V) Short term exposure limit 491 mg/m³ 100 Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2011

Styrene

List EH40 Type WEL

Value 430 mg/m<sup>3</sup> 100 ppm(V) Short term exposure limit 1080 mq/m<sup>3</sup> 250 ppm(V) Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2011

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

Styrene

Reference substance Styrene

DNEL

Conditions Worker inhalative Systemic effects Acute

Concentration 289 mg/m³

**DNEL** 



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Conditions Concentration	Worker 85	Long term mg/m³	inhalative	Systemic effects
DNEL Conditions Concentration	Worker 306	Acute mg/m³	inhalative	Local effects
DNEL Conditions Concentration	Worker 406	Long term mg/kg/d	dermal	Systemic effects

### 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 recommendedor 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.

#### **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

Form liquid

**Colour** depends on recipe, cloudy

**Odour** of styrene

Flash point

Value 32 °C

Efflux time

Value > 61 s

Method DIN EN ISO 2431 - 6 mm

**Density** 

Value 1,15-1,25 g/cm<sup>3</sup>

Temperature 20 °C

#### 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.



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### 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 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

### **Acute oral toxicity**

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

#### Acute dermal toxicity

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

#### Acute inhalational toxicity

ATE 35,32 mg/l

Administration/Form Vapors

Method calculated value (Regulation (EC) No. 1272/2008) ATE 4,49 mg/l

Administration/Form Dust/Mist

Method calculated value (Regulation (EC) No. 1272/2008)

The classification criteria are met.

#### Skin corrosion/irritation

evaluation irritant The classification criteria are met.

#### Serious eye damage/irritation

evaluation irritant The classification criteria are met.

#### Sensitization

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

### Sensitization (Components)

#### Styrene

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.

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



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#### **Aspiration hazard**

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

#### Other information

Inhalation of the vapours causes irritation of the respiratory tract and mucous membrane, headaches, nausea, giddiners, vomiting.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

#### Fish toxicity

Styrene

LC/EC/IC50 1.0 to 10 mg/l

Daphnia toxicity

Styrene

**Species** Daphnia magna

LC/EC/IC50 1.0 to 10 mg/l

Algae toxicity

Styrene

LC/EC/IC50

1,0 to 10 mg/l

**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)

### 12.3. Bioaccumulative potential

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

#### 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

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

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 1866



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14.2. UN proper shipping name

**RESIN SOLUTION** 

**14.3. Transport hazard class(es)**Class 3

14.4. Packing group

Packing group III

Remarks Viscous product: Transport according to paragraph 2.2.3.1.5 ADR/RID

Tunnel restriction code D/E

Marine transport IMDG/GGVSee

14.1. UN number UN number 1866

14.2. UN proper shipping name

**RESIN SOLUTION** 

14.3. Transport hazard class(es)
Class 3

14.4. Packing group
Packing group

Remarks Transport according to 2.3.2.5 of the IMDG Code

EmS F-E, S-E

### **SECTION 15: Regulatory information**

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

VOC

VOC (EU) 2,52 %

Major-accident categories acc. 2012/18/EU

Category P5c FLAMMABLE LIQUID

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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H361d Suspected of damaging the unborn child.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure:

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.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

PBT: Persistent, Bioaccumulative and Toxic vPvB: Very persistent and very bioaccumulative

VOC: Volatile Organic Compound



\* BÜFA®-VE-Tooling-Gelcoat-H-XXXX (COLOURED) Date revised: 01.09.2017

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### **CLP categories listed in Chapter 3**

Acute Tox. 4 Acute toxicity, Category 4

Aquatic Acute 1 Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Asp. Tox. 1

Eye Irrit. 2

Flam. Liq. 3

Repr. 2

Skin Irrit. 2

Skin Sens. 1

Aspiration hazard, Category 1

Eye irritation, Category 2

Flammable liquid, Category 3

Reproductive toxicity, Category 2

Skin irritation, Category 2

Skin sensitization, Category 1

STOT RE 1 Specific target organ toxicity - repeated exposure, Category 1
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.