

\* BÜFA®-Conductive-Tooling GC-S green

Date revised: 10.01.2022

# 52001020251

Version: 5 / WORLD

Master No. M-401

Print date: 19.05.2022

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

### **1.1. Product identifier**

**Trade name**

BÜFA®-Conductive-Tooling GC-S green

**UFI**

UFI: PY11-P0QX-G000-27SQ

### **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.

**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 & 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

Repr. 2 H361d

STOT SE 3 H335

STOT RE 1 H372

Aquatic Chronic 3 H412

Organs: Ear; Route of exposure: inhalative

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**

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**Signal word**

Danger

**Hazard statements**

H226 Flammable liquid and vapour.  
 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.  
 Ear; Route of exposure: inhalative  
 H412 Harmful to aquatic life with long lasting effects.

**Sensitising substances**

EUH208 Contains Neodecanoic acid, cobalt salt  
 May produce an allergic reaction.

**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.  
 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.

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

contains styrene

**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	Organs: Ear; Route of exposure: inhalative
Asp. Tox. 1	H304	
Repr. 2	H361d	
Aquatic Chronic 3	H412	

**Neodecanoic acid, cobalt salt**

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CAS No.	27253-31-2				
EINECS no.	248-373-0				
Registration no.	01-2119970733-31-0006				
Concentration	>=	0,1	<	1	%
Acute Tox. 4	H302				
Skin Sens. 1	H317				
Repr. 2	H361				
Aquatic Chronic 3	H412				

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.

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

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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 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

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

##### 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		

##### Neodecanoic acid, cobalt salt

##### Reference substance

Neodecanoic acid, cobalt salt

Conditions	Worker	Long term	Local effects
Concentration	0,273	mg/m <sup>3</sup>	

### 8.2. Exposure controls

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**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 166.

**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>	green		
<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	33,5	°C	
Method	ISO 3679-B		
<b>Evaporation rate</b>			
Remarks	No data available		
<b>Efflux time</b>			
Value	> 61	s	
Temperature	23	°C	
Method	DIN EN ISO 2431 - 6 mm		
<b>Flammability</b>			

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No data available

**Explosion limits**

Remarks No data available

**Vapour pressure**

Remarks No data available

**Vapour density**

Remarks No data available

**Density**Value 1,0871 g/cm<sup>3</sup>

Temperature 20 °C

Method DIN EN ISO 2811-1

**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 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 oral toxicity (Components)****styrene**

Species	rat		
LD50	>	5000	mg/kg

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****styrene**

Species	rat		
LD50	>	5000	mg/kg

**Acute inhalational toxicity**

ATE		27,03	mg/l
Administration/Form	Vapors		
Method	calculated value (Regulation (EC) No. 1272/2008)		
ATE		3,44	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		

**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)****styrene**

evaluation	non-sensitizing
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**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**

evaluation	May cause respiratory irritation.
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**Repeated exposure**

The classification criteria are met.

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evaluation

Causes damage to organs through prolonged or repeated exposure

**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 &gt; 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 &gt; 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.

**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 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.

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## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee
Tunnel restriction code	D/E	
14.1. UN number	1866	1866
14.2. UN proper shipping name	RESIN SOLUTION	RESIN SOLUTION
14.3. Transport hazard class(es)	3	3
Label		
14.4. Packing group	III	III
Remarks	Viscous product: Transport according to paragraph 2.2.3.1.5 ADR/RID	Transport according to 2.3.2.5 of the IMDG Code
Limited Quantity	5 l	
Transport category	3	

### 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

#### 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.
H302	Harmful if swallowed.
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.

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H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H372	Causes 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

PBT: Persistent, Bioaccumulative and Toxic

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
Skin Sens. 1	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.