

\* BÜFA®-Standard-Topcoat-H jet black BF-09105-T

Date revised: 30.06.2022

# 5679055

Version: 3 / DK

Master No. M-401

Print date: 02.08.2022

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

### **1.1. Product identifier**

#### **Trade name**

BÜFA®-Standard-Topcoat-H jet black BF-09105-T

#### **UFI**

UFI: X872-S0PV-100A-VP59

### **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	
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**



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**Signal word**

Danger

**Hazard statements**

H226 Flammable liquid and vapour.  
 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.

**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	>= 25	<	30	%	
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				

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

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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 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

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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 / sensitisation: H; Pregnancy group; Status; Remarks: LHK

**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

**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

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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>	black		
<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	34		°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>			
Remarks	No data available		
<b>Explosion limits</b>			
Remarks	No data available		
<b>Vapour pressure</b>			
Remarks	No data available		
<b>Vapour density</b>			
Remarks	No data available		
<b>Density</b>			
Value	1,2		g/cm <sup>3</sup>
Temperature	20		°C
Method	DIN EN ISO 2811-1		
<b>Solubility in water</b>			
Remarks	No data available		
<b>Solubility in other solvents</b>			
Remarks	No data available		
<b>Octanol/water partition coefficient (log Pow)</b>			

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Remarks	No data available
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**Ignition temperature**

Remarks	No data available
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**Auto-ignition temperature**

Remarks	No data available
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**Thermal decomposition**

Remarks	No data available
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**Explosive properties**

evaluation	no data
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**Oxidising properties**

Remarks	No data available
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**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****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	45,84	mg/l
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Administration/Form	Vapors
Method	calculated value (Regulation (EC) No. 1272/2008)

ATE	5,83	mg/l
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Administration/Form	Dust/Mist
Method	calculated value (Regulation (EC) No. 1272/2008)

Based on available data, the classification criteria are not 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)****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

**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, giddiness, 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.

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**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.

**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.



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**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) 0,44 %

**Major-accident categories acc. 2012/18/EU**

Category P5c FLAMMABLE LIQUID

**National regulations**

Observe employment restrictions for young people.  
 Observe employment restrictions for child bearing mothers and nursing mothers.  
 Users must have undergone special training course approved by the labor inspectorate for work with products containing styrene.

**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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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
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.

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