

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / 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 light ivory BF-01015-T

UFI

UFI: W152-M0RJ-200F-PSXX

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

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

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022

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

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	>= 20 < 25 %
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

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

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022

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 form an explosive mixture with air.

7.2. Conditions for safe storage, including any incompatibilities

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022

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 ³	25	ppm(V)

Maximum limit value; Skin resorption / sensitisation: H; Pregnancy group; Status; Remarks: LHK

titanium dioxide

List	GV		
Value	6	mg/m ³	

Derived No/Minimal Effect Levels (DNEL/DMEL)**styrene**

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

DNEL				
Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	85	mg/m ³		

DNEL				
Conditions	Worker	Acute	inhalative	Local effects
Concentration	306	mg/m ³		

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	

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022

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**

Form	liquid		
Colour	beige		
Odour	of styrene		
Odour threshold			
Remarks	No data available		
pH value			
Remarks	No data available		
Melting point			
Remarks	No data available		
Freezing point			
Remarks	No data available		
Boiling point			
Remarks	No data available		
Flash point			
Value	39		°C
Method	ISO 3679-B		
Evaporation rate			
Remarks	No data available		
Efflux time			
Value	> 61		s
Temperature	23		°C
Method	DIN EN ISO 2431 - 6 mm		
Flammability			
Remarks	No data available		
Explosion limits			
Remarks	No data available		
Vapour pressure			
Remarks	No data available		
Vapour density			
Remarks	No data available		
Density			
Value	1,237		g/cm ³
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)			

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T	Date revised: 30.06.2022
# 5671065	Version: 4 / DK
Master No. M-401	Print date: 02.08.2022

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****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	47,65	mg/l
-----	-------	------

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

ATE	6,06	mg/l
-----	------	------

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
------------	----------

The classification criteria are met.

Serious eye damage/irritation

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

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022

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 > 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.

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T	Date revised: 30.06.2022
# 5671065	Version: 4 / DK
Master No. M-401	Print date: 02.08.2022

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.

* BÜFA®-Standard-Topcoat-H light ivory BF-01015-T

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022

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) 0,42 %

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.

* **BÜFA®-Standard-Topcoat-H light ivory BF-01015-T**

Date revised: 30.06.2022

5671065

Version: 4 / DK

Master No. M-401

Print date: 02.08.2022
