

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: Carbon fiber fabric

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

Identified usesStructural reinforcement.Uses advised againstFor industrial use only.

1.3. Details of the supplier of the safety data sheet

Registered company name: Shanghai Wolfix Materials Co., Ltd.

Address: Room 703, Building 3, No.101 Youyi Rd, Baoshan district, Shanghai.

Telephone: +86 150 0066 9292 Email: Admin@wolf-fix.com

www.wolf-fix.com

1.4. Emergency telephone number: +86 150 0066 9292.

Association/Organisation : Company Phone (24h)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

According to REACH Regulation 1907/2006 EC, the product is considered as an article. The preparation of a safety data sheet in accordance with Article 31 of the Regulation (EC) No.1907/2006 is not legally required for articles. As being an article the product does not require label in accordance with CLP Regulation (EC) No. 1272/2008 and this safety data sheet (SDS) is provided on the voluntary basis for information purpose only.

Classification according to Regulation (EC) No 1272/2008 as amended

The product is an article and therefore the classification requirements according to Regulation (EC) 1272/2008 as amended do not apply.

Hazard summary Low hazard for recommended handling by trained personnel.

2.2. Label elements

Disposal

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms None Signal word None

Hazard statements Exempt (manufactured article).

Precautionary statements

Supplemental label information

Prevention Observe good industrial hygiene practices.

ResponseWash skin with soap and water. **Storage**Store away from heat. Keep dry.

Dispose of waste and residues in accordance with local authority

requirements.

None

2.3. Other hazards

Processing may generate hazardous fumes and dusts. Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. May cause irritation through mechanical abrasion. Exposure to smoke or fumes evolved during cutting, machining, or grinding operations may cause sneezing or coughing, and irritate the nose, throat, and upper respiratory tract. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Persons with epoxy allergy should not work with this product.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No. REACH	Index No.	Notes	
Carbon Fiber on basis polyacrylonitrile (carbon)	90-96	308063-67-4 231-153-3	1	1	/
Classification:					
Non-hazardous ingredients	4-10	N/A	1	1	/
Classification:					

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: FIRST AID MEASURES

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation In case of inhalation of fumes from heated product: Move to fresh air.

Skin contact Sharp edges may cause cuts and irritation. Cuts or abrasions should be treated promptly with

thorough cleansing of the affected area.

Eye contact If exposed to fumes or smoke flush eyes with large amount of water for at least 15 minutes. Dust in

the eyes: Do not rub eye. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion Not likely, due to the form of the product.

4.2. Most important symptoms and effects, both acute and delayed

No specific symptoms noted.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

General fire hazards

5.1. Extinguishing media

This product is not flammable. Will burn if involved in a fire.

Suitable extinguishing media Unsuitable extinguishing media Use fire-extinguishing media appropriate for surrounding materials.

None known.

5.2. Special hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case

of fire.

Special fire fighting procedures

Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

For emergency responders

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect spillage.

6.4. Reference to other sections

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For personal protection, see Section 8 of the SDS. For waste disposal, see Section 13 of the SDS.

Ensure adequate ventilation. Avoid contact with skin and eyes, which may cause lacerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling Provide adequate ventilation. Use work methods which minimise dust/fume

production. Avoid inhalation of dust. Avoid inhalation of fumes from heated product. Caution - Risk of injury: CFK roll is under great tension. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene

practices.

7.2. Conditions for safe storage,

including any incompatibilities

Store away from heat. Keep dry. Keep at temperature not exceeding 40°C.

7.3. Specific end use(s) Structural reinforcement.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits
Belgium. Exposure Limit Values.

Components	Туре	Value	Form
Dust	TWA	3 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components Type Value Form

Dust TWA 3,5 mg/m3 Respirable fraction. 10 mg/m3 Inhalable fraction.

		VEIS	sion 1.0 (22-04-2022)			
Czech Republic. OELs. Government Decree Components	e 361 Type	Value	Form			
Dust	TWA	5 mg/m3	Dust.			
Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)						
Components	Туре	Value	Form			
Dust	TWA	5 mg/m3 10 mg/m3	Respirable dust. Total dust.			
France. Threshold Limit Values (VLEP) for Components	Occupational Exposure to Chemic Type	als in France, INRS Value	ED 984 Form			
Dust	VME	5 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.			
Germany. DFG MAK List (advisory OELs). in the Work Area (DFG)	Commission for the Investigation of	of Health Hazards o	f Chemical Compounds			
Components	Туре	Value	Form			
Dust	TWA	4 mg/m3 0,3 mg/m3	Inhalable dust. Respirable dust.			
Germany. TRGS 900, Limit Values in the Ar Components	mbient Air at the Workplace Type	Value	Form			
Dust	AGW	10 mg/m3 1,25 mg/m3	Inhalable fraction. Respirable fraction.			
Hungary. OELs. Joint Decree on Chemical Components	Safety of Workplaces Type	Value	Form			
Dust	TWA	6 mg/m3	Respirable dust.			
		10 mg/m3	Total inhalable dust.			
Iceland. OELs. Regulation 154/1999 on occ Components	cupational exposure limits Type	Value	Form			
Dust	TWA	5 mg/m3 10 mg/m3	Respirable dust. Total dust.			
Ireland. Occupational Exposure Limits Components	Туре	Value	Form			
Dust	TWA	4 mg/m3	Respirable dust.			
		10 mg/m3	Total inhalable dust.			
Lithuania. OELs. Limit Values for Chemica Components	al Substances, General Requiremen Type	nts (Hygiene Norm I Value	HN 23:2007) Form			
Dust	TWA	5 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.			
Norway. Administrative Norms for Contam Components	inants in the Workplace Type	Value	Form			
Dust	TLV	5 mg/m3	Respirable dust.			
Norway. Administrative Norms for Contam Components	ninants in the Workplace Type	Value	Form			
		10 mg/m3	Total dust.			
Poland. MACs. Regulation regarding maxir environment, Annex 1	mum permissible concentrations ar	-				
Components	Туре	Value	Form			
Dust	TWA	10 mg/m3 1 mg/m3	Inhalable fraction. Respirable fraction.			

Portugal. VLEs. Norm on occupational ex Components	Type	chemical agents (NP 179)	6) Value	Form			
Dust	TWA		3 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.			
Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical							
agents Components	Туре		Value	Form			
Dust	TWA		10 mg/m3				
			10 mg/m3	Dust.			
Slovakia. OELs. Regulation No. 300/2007 (Components	Type	g protection of health in v	vork with chemical Value	Form			
Dust	TWA		2 mg/m3	Respirable aerosol fraction			
			2 mg/m3	Respirable fraction.			
Spain. Occupational Exposure Limits Components	Туре		Value	Form			
Dust	TWA		3 mg/m3 10 mg/m3	Respirable fraction. Inhalable fraction.			
Sweden. OELs. Work Environment Author	rity (AV), C	Occupational Exposure Li)15:7)			
Components	Туре		Value	Form			
Dust	TWA		5 mg/m3 10 mg/m3	Respirable dust. Inhalable dust.			
Switzerland. SUVA Grenzwerte am Arbeits Components	splatz Type		Value	Form			
Dust	TWA		3 mg/m3	Respirable dust.			
			10 mg/m3	Inhalable dust.			
UK. EH40 Workplace Exposure Limits (WE Components	ELs) Type		Value	Form			
Dust	TWA		4 mg/m3	Respirable dust.			
			10 mg/m3	Inhalable dust.			
Biological limit values Recommended monitoring procedures Derived no effect levels(DNELs) Predicted no effect concentrations (PNECs)	s)	No biological exposure limingredient(s). Follow stand procedures. Not available. Not available.					
8.2. Exposure controls Appropriate engineering controls		General ventilation norma limits and minimise the ris		e occupational exposure			
ndividual protection measures, such as personal protective equipment							
General information		Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.					
Eye/face protection		Use tight fitting goggles if	dust is generated by	machining operation.			
Skin protection		Wear suitable protective g					
- Hand protection - Other		Protective clothing is not re is heated, wear gloves to p					

Not necessary under normal conditions. Wear respirator if there is dust formation. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling

the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

Environmental exposure controls Environmental manager must be informed of all major releases.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state Solid.

Solid. Roll. Form

Black. Colour Odour None.

Odour threshold Not applicable.

Ηq Not applicable.

Melting point/freezing point Not applicable.

Initial boiling point and boiling Not applicable.

range

Flash point

Not applicable. Not applicable. Evaporation rate

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Not applicable. Vapour pressure Vapour density Not applicable.

Relative density 1.7 - 2

Insoluble in water. Solubility(ies)

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperature Not applicable. Decomposition temperature Not available.

Not applicable. Viscosity Explosive properties Not explosive. Oxidising properties Not oxidising.

9.2. Other information No relevant additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity 10.2. Chemical stability The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.

No dangerous reaction known under conditions of normal use 10.3. Possibility of hazardous reactions

Avoid high temperatures. Heating. Avoid dust formation.

Strong oxidising agents. 10.5. Incompatible materials

10.6. Hazardous decomposition products No hazardous decomposition products are known.

SECTION 11: TOXICOLOGICAL INFORMATION

General information Occupational exposure to the substance(s) generated during processing of this material may

cause adverse health effects.

Information on likely routes of exposure

10.4. Conditions to avoid

Inhalation Inhalation of dusts produced during cutting, grinding or sanding of this product may cause

irritation of the respiratory tract.

Skin contact The material has sharp edges, which may damage skin. May cause irritation through mechanical

abrasion.

Eye contact The material has sharp edges, which may damage eyes. Elevated temperatures or mechanical

action may form dust and fumes which may be irritating to the eyes.

Not likely, due to the form of the product. However, ingestion of dusts generated during working Ingestion

operations may cause nausea and vomiting.

Symptoms Mechanical irritation of skin, eyes and respiratory system.

11.1. Information on toxicological effects

Not relevant, due to the form of the product in its manufactured and shipped state. Acute toxicity

Skin corrosion/irritation Dust may irritate skin. Dust may irritate the eyes.

Serious eye damage/eye irritation

Respiratory sensitisation

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

Not classified. However: Preparation contains an epoxy resin, which may cause sensitisation and Skin sensitisation

development of allergy.

Germ cell mutagenicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Carcinogenicity

Reproductive toxicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Specific target organ toxicity -

single exposure Specific target organ toxicity -

repeated exposure

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

Aspiration hazard Not relevant, due to the form of the product.

Mixture versus substance

information

No data available.

Because of the polymerically bound form of the product, the risk inherent to the active substances Other information

is minimized for all kinds of absorption.

SECTION 12: ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. However, this does not exclude the 12.1. Toxicity

The product is not expected to be readily biodegradable.

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence and

degradability

The product is not expected to bioaccumulate.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow) Not applicable.

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil The product is insoluble in water and will sediment in water systems. 12.5. Results of PBT

and vPvB assessment Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects

Generally polymer compounds may contain ingredients (raw materials) that can pose a danger to aquatic organisms should these ingredients be extracted into the water in which the organisms live. Through encapsulation in the polymeric matrix, volatility and migration of ingredients is reduced such that the bio-availability is nearly eliminated.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations.

Not applicable. Contaminated packaging EU waste code 16 03 04

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Not applicable.

Disposal methods/information Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: TRANSPORT INFORMATION

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

14.7. Transport in bulk according to Annex II of

MARPOL 73/78 and the IBC

Code

SECTION 15: REGULATORY INFORMATION

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended Not listed

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed

Other regulations The product is an article and therefore the classification requirements according to Regulation

(EC) 1272/2008 as amended do not apply.

National regulations Follow national regulation for work with chemical agents. 15.2. Chemical safety No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: OTHER INFORMATION

List of abbreviations Not available.

GESTIS Substance Database References

C&L Inventory database.

In-house data Not applicable.

Information on evaluation method leading to the classification of mixture

Full text of any H-statements

not written out in full under

Sections 2 to 15

None.

This SDS contains revisions in

the following section(s):

Training information

Follow training instructions when handling this material.

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guide for safe handling,

use, processing, storage, transportation, disposal and release. It is not to be considered a

warranty or quality specification.