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According to Regulation (EC) No 1907/2006 [REACH] Article 3(3) this product is classified as article, hence no obligation exists to create a safety data sheet as required by REACH Article 31. This Product Information was created in the style of REACH Annex II/Regulation (EU) 2020/878 to inform about a safe and careful handling with this product.

Section 1: Identification of the article and of the company

1.1 Product Identifier

Tenax™-E HTS45 P12
 Tenax™-E IMS65 P12
 Tenax™-E IMS65 P22

REACH-registration status

This product is treated as an article. Articles are exempted from registration in accordance with Regulation (EC) No 1907/2006.

1.2 Relevant identified uses of the article and uses advised against

Manufacturing of Thermoplastic Carbon Composite.

Uses advised against

None known.

1.3 Details of the supplier

Teijin Carbon Europe GmbH
 Kasinostr. 19-21
 42103 Wuppertal
 GERMANY
 Tel: +49 202 32 32 25
 Homepage: www.tejincarbon.com

Qualified person

E-Mail: safety@tejincarbon.com

1.4 EMERGENCY TELEPHONE NUMBER

Not available for this version.

Section 2: Hazards identifications

2.1 Classification

This product is an **article**, and hence does not require a classification and labelling according to EU regulations.

2.1.1 Self-Classification according to Regulation (EC) No 1272/2008 [CLP]

Not classified as hazardous. See chapter 3

2.2 Self-Labeling elements according to Regulation (EC) No 1272/2008 [CLP]

Not subject to classification.

Precautionary instruction

P280: Wear protective gloves.

Supplemental hazard information (EU)

None known.

2.3 Other hazards

The product does not contain any **vPvB** substances or is not included under Annex XIII of Regulation (EC) 1907/2006 above legal concentration limits ≥ 0.1 % (w/w).

The product does not contain any **PBT** substances or is not included under Annex XIII of Regulation (EC) 1907/2006 above legal concentration limits ≥ 0.1 % (w/w).


The product does not contain Substances of Very High Concern (**SVHC**) acc. to REACH Regulation (EC) No 1907/2006, Art. 59 above legal concentration limits of ≥ 0.1 % (w/w).

The product does not contain any constituents that are in accordance with REACH Article 57(f), Regulation (EU) 2017/2100, or Regulation (EC) 2018/605 in quantities of 0.1% (w/w) or more have **endocrine disrupting** properties.

Other hazards which do not result in classification

Self-declaration following DGUV-Information "Bearbeitung von CFK Materialien" (Processing of Carbon Composites Materials) FB HM-074 Edition 10/2014.

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Hazard pictograms		
Signal word	Warning	
Hazard statement	During mechanical processing fine dust could be formed as a result of abrasion, and which might be included fractions of WHO-fibre particles that are respirable and/or alveolar.	
Precautionary statements	P243	Take action to prevent static discharges.
	P261	Avoid breathing dust.
	P280	Wear protective gloves and half mask.

3.1 Product type

This product is an **article** acc. to regulation (EC) 1907/2006 [REACH].
 It does not contain any substances that are intended to be released under normal or foreseeable applications.

Description

Carbon filament yarn with thermoplastic pre-impregnated.

3.2 Composition/information of ingredients

No	Substance	EU-INDEX EINECS/ELINCS CAS No Reg. No	Content by weight % (w/w)	GHS/CLP	M-factor/ specific limit value	Notice
1.	Carbon fiber based on polyacrylonitrile (PAN)	- Polymer: (231-153-3) 308063-67-4 (7440-44-0) -	≥ 98.0	Not classified	-	[A] [2]
2.	Thermoplastic PEI-Sizing (Polyetherimide)	- - -	≤ 2.0	Not classified	-	[A] [2]

The full wording of the listed hazard statements can be found in section 16.

[A] = Ingredient

[B] = Impurity

[1] = Substance classified as hazardous to health or the environment.

[2] = Substance with an occupational exposure limit value.

Additional information

None known.

Section 4: First aid measures

4.1 Description of first aid measures

General information

Avoid breathing fiber dust. Otherwise, no special measures are necessary.

Following inhalation

In the case of fiber dust inhalation, bring affected person to fresh air. If respiratory irritation persists, seek medical attention.

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Following skin contact

In the case of contact with skin, rinse affected area thoroughly with lot of cold water. Do not use warm water since it aggravates the skin itching/irritation. Consult a doctor if skin irritation persists.

Following eye contact

In the case of eye contact, rinse the affected eye thoroughly for a few minutes. Remove contact lenses, if present and easy to do, continue rinsing. If eye irritation persist, seek medical attention.

Following ingestion

Not applicable.

Self-protection of the first aider

Self-aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and Effects

Preexisting sensitization and skin disorders may be aggravated.

4.3 Indication of any immediate medical attention and special treatment needed

Special treatment

First aid, treatment of symptoms.

Notes for the doctor

Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the article

Hazardous combustion products

At temperatures above ≥ 200 °C, hazardous decomposition and degradation products like Carbon oxides (COx), and Nitrogen oxides (NOx) can be released from the matrix.

Further increase of temperature above ≥ 650 °C can cause WHO-fibres coming from the disintegrating CF-material.

5.3 Advice for firefighters

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4 Additional Information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

For non-emergency personnel

Wear personal protective equipment, see section 8

For emergency responders

Remove persons to safety. Isolate hazard area and deny entry. Ventilate closed spaces before entering. Use personal protective equipment, see section 8.

6.2 Environmental precautions

No special measures are required.

6.3 Methods and material for containment and cleaning up

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For containment
 Not known.

For cleaning up
 Clean contaminated objects with damp cloth. Dispose of contaminated material in accordance with regulations.

- 6.4 Reference to other sections**
 Handling and storage, see section 7.
 Personal protection, see section 8.
 Disposal considerations, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures
 Wear personal protective equipment. See Section 8.

Measures to prevent fire
 Keep the product away from heat, sparks and open flames.

Measures to prevent aerosol and dust generation
 Fiber dust shall be extracted at the point of origin by an integrated extraction or vacuumed by an industrial vacuum cleaner. Filter recommendation: class B1 IP65 or type 22 IIIC according to DIN IEC 62784, at least filter class cat. M.

Measures to protect the environment
 Not known.

Advice on general occupational hygiene
 General hygiene rules must be observed: Wash hands before breaks and at the end of work. Wash contaminated clothing prior to re-use.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
 Recommended storage temperature: ≤ 50 °C, relative humidity ≤ 85 %.

Requirements for storage rooms and vessels
 Store the product in dry rooms in the original packaging.

Further information on storage conditions
 Store and keep away from direct sunlight and other UV-light source.

7.3 Specific end use(s)

Recommendations
 Intermediate product

Specific end uses
 See chapter 1.2.

Section 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Occupational exposure limits

No	Substance	CAS No	Occupational exposure limits (OEL)		Monitoring and observation processes	Sources Limit value type Country of origin
			Limit value Eight hours	Limit value Short term (15 min)		
	Workplace limits for dust in general (ASGW)	-	-	1.25 A mg/m ³ 10 E mg/m ³	Exceedance factor = 2	TRGS 900, 521 GESTIS Limit Values Germany (AGS)

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No	Substance	CAS No	Occupational exposure limits (OEL)		Monitoring and observation processes	Sources Limit value type Country of origin
			Limit value Eight hours	Limit value Short term (15 min)		
1.	Carbon fibre	-	2 fibre particles/cm ³			GESTIS Limit Values Belgium VLEP/GWBB
			3 E mg/m ³			GESTIS Limit Values China
2.	Polymer dust		5 mg/m ³			GESTIS Limit Values Latvia

Biological limit values

Not applicable.

DN(M)EL-Values

Not applicable.

PNEC-Values

Not applicable.

8.2

Exposure controls

Individual protection measures when processing the product, such as personal protective equipment:



Appropriate protective equipment

Ensure adequate ventilation on workplace. Mechanical processing should be preferable taken place in confined areas or separate facilities. Technical machinery, electric and electronic devices should be protected against static charge and short circuit.

Personal protective equipment

Eye and face protection

Suitable eye protection

Protection google at all stages.

Skin protection

Hand protection

Wear protective gloves when handling the product. For sufficient protection use gloves according to EN 374. Nevertheless, before using protection gloves for the first time, they should be tested for their workplace-specific suitability (e.g. mechanical resistance, product compatibility and antistatic properties). For further information, please contact the glove supplier.
 Glove material: Nitrile rubber, thickness ≥ 0.4 mm
 Penetration time: ≥ 2 h (120 min)

Body protection

Wear clothes with long sleeves. A work coat is recommended when handling the product.

Respiratory protection

In the case of vapors and/or dust, use breathing apparatus.
 Half or quarter mask, filter P2 or
 Particle filter mask FFP2 or
 PAPR with TH2P.

Thermal hazards

No specific hazards.

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Environmental exposure controls
 Not specified.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Form	Color	Odor	Odor threshold
Solid, filament	Black	Not specified	Not available

Basic physical and chemical properties

Parameter	Value	Method	Remarks
pH level [20 °C]	Not applicable		
Melting point/ freezing point [°C]	≈ 3500 °C		Carbon fiber
Initial boiling point/ Boiling range [°C]	Not specified		
Flash point [°C]	Not specified		
Evaporating rate	Not available		
Inflammability (solid, gaseous)	Not available		
Lower explosion limits	Not available		
Upper explosion limits	Not available		
Vapor pressure [Pa]	Not available		
Vapor density [°C]	Not available		
Relative Density [°C]	1.2 – 1.7 g/cm ³		At 23 °C
Solubility (solvents) [°C]	Not available		
Partition coefficient: n-Octan/Water [K _{ow}]	Not applicable		
Auto-ignition temperature [°C]	Not applicable		
Decomposition temperature [°C]	≥ 650 °C CF		Ambient air
Viscosity, flow time [23 °C]	Not applicable		
Viscosity, dyn. [mPas/20 °C]	Not applicable		
Explosive properties	Product is not explosive		
Oxidizing properties	None known		

9.2 Other information

None known.

Section 10: Stability and reactivity

10.1 Reactivity

Product is not reactive under conditions for transfer, storage and applications. See Chapter 7.2

10.2 Chemical stability

Product is stable under conditions for transfer, storage and applications. See Chapter 7.2

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- 10.3 Possibility of hazardous reactions**
Accumulation of dust may entail the risk of a dust explosion in the present of air.
- 10.4 Conditions to avoid**
Do not heat up above decomposition temperature mentioned. See Section 5.2, 9.1.2.
- 10.5 Incompatible materials**
No information available.
- 10.6 Hazardous decomposition products**
None known if used for intended purpose.

Section 11: Toxicological information

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
 Assessment / Classification of the product**

Acute toxicity

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Parameter	Endpoint	Value	Species	Result / evaluation	Method	Remark
Acute oral toxicity	ATE	-	-	-	-	-
Acute dermal toxicity	ATE	-	-	-	-	-
Acute inhalative toxicity (vapor)	ATE	-	-	-	-	-

Due to calculated ATE values, acute toxicity of the product is not expected. Based on available data, the classification criteria are not met.

Skin corrosion/irritant

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

Serious eye damage/eye irritation

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

Sensitisation to the respiratory tract/skin

Based on available data, the classification criteria of respiratory sensitisation are not met.
 Based on available data, the classification criteria of skin sensitisation are not met.

Germ cell mutagenicity

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

Carcinogenicity

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

Reproductive toxicity

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

Overall assessment on CMR properties

This product does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

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

Toxicological information of the ingredients

Acute toxicity

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Practical experience / human evidence

No data available.

Animal data

No data available.

Skin corrosion/irritant

Practical experience / human evidence

No data available

Animal data (InVivo)

No data available.

Serious eye damage/eye irritation

Practical experience / human evidence

No data available.

Animal data (InVivo)

No data available.

InVitro eye test

No data available.

Sensitisation to the respiratory tract/skin

Sensitisation to the respiratory tract

Practical experience / human evidence

No data available.

Skin Sensitisation

Practical experience / human evidence

No data available

Animal data (InVivo)

No data available.

Germ cell mutagenicity

InVivo mutagenicity / genotoxicity

No data available

InVitro mutagenicity / genotoxicity

No data available

Carcinogenicity

Practical experience / human evidence

No data available.

Animal data

No data available

Reproductive toxicity

Adverse effects on sexual function and fertility

No data available

Adverse effects on developmental toxicity

No data available

Effects on or via lactation

No data available.

Specific target organ toxicity (single exposure)

Practical experience / human evidence

No data available.

Animal data

No data available.

Specific target organ toxicity (repeated exposure)

Practical experience / human evidence

No data available.

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Animal data
 No data available

Aspiration hazard

Practical experience / human evidence
 Not applicable.

Experimental data
 Viscosity data. See Section 9.

11.2 Information on other hazards

Endocrine disrupting properties
 No data available.

General information
 None known.

Section 12: Ecological information

12.1 Toxicity

Toxicity of the product
 Assessment / Classification

Aquatic toxicity
 Based on available data, the classification criteria are met.

Sediment toxicity
 Not classifiable due to data lacking.

Terrestrial toxicity
 Not classifiable due to data lacking.

Toxicity information of the ingredients

Acute (short-term) fish toxicity
 No data available

Chronic (long-term) fish toxicity
 No data available.

Acute (short-term) toxicity to crustacean
 No data available.

Chronic (long-term) toxicity to crustacean
 No data available

Acute (short-term) toxicity to algae and cyanobacteria
 No data available.

Toxicity to other aquatic plants and organisms
 No data available.

Toxicity to microorganisms
 No data available.

Sediment toxicity
 No data available.

Terrestrial toxicity

Toxicity to soil microorganisms except arthropods
 No data available.

Toxicity to terrestrial arthropods
 No data available.

Toxicity to terrestrial plants
 No data available.

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Toxicity to birds

No data available.

12.2 Persistence and degradability

Assessment / Classification

No data available.

Abiotic Degradation

No data available.

Biodegradation

No data available.

12.3 Bioaccumulative potential (BCF)

Assessment / Classification

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

12.4 Mobility in soil

No data available.

Assessment / Classification

Not classifiable due to data lacking.

Mobility in soil of the ingredients

No data available.

12.5 Results of the PBT and vPvB assessment

The PBT and vPvB criteria of Annex XIII to the Regulation does not apply to inorganic substances.

12.6 Endocrine disrupting properties

The product does not contain any constituents that are in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 of the Commission or the Delegated Commission Regulation (EU) 2018/605 in quantities of 0.1% (w/w) or more have endocrine disrupting properties.

12.7 Other adverse effects

None known.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product residues should be disposed of in compliance with Directive on Waste 2008/98/EC as well as national and regional regulations. For the product, it is not possible to determine a waste code number according to the European Waste Catalogue (EWC) as only the intended use by the customer enables an allocation. The waste code number has to be determined within the EU in accordance with the local waste disposer.

Product / Packaging disposal

List of proposed waste codes/waste designations in accordance with AVV.

Waste treatment-relevant information

Not specified.

Sewage disposal-relevant information

Not specified.

Other disposal recommendations

Non-contaminated packaging may be taken for recycling.
 Contaminated packaging must be disposed of like the product.

Section 14: Transport information

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	Land transport (ADR/RID)	Inland waterways (ADN)	Marine transportation (IMDG)	Transport by air (ICAO-IT/ IATA-DGR)
14.1	UN-Number -			
14.2	UN proper shipping name NO DANGEROUS GOODS			
14.3	Transport hazard class(es) -			
	Label -			
14.4	Packing group -			
14.5	Environmental hazards -			
14.6	Special precautions for user See section 6 to 8.			
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and IBC-Code Not applicable.			
14.8	Additional information Not applicable.			

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/specific legislations

EU regulations

Authorizations and/or restrictions on use

Not applicable.

Other EU regulations

VOC directive (2004/42/EG)

The product may emit volatile organic substances under processing conditions.

Ozone layer (Reg. EC No. 1005/2009)

Product does not contain substances that deplete the ozone layer.

Employment restriction

When processing the product, observe employment restrictions for child bearing mothers and nursing mothers, and furthermore, observe employment restrictions under the law for the protection of young people at work (94/33/EC Article 7)

Fluorinated greenhouse gases (Reg. EU No. 517/2014)

Product does not contain fluorinated greenhouse gases.

RoHS 2011/65/EU and amendments

This product does not contain any substances listed in RoHS (or contains in concentrations below the limits as specified therein).

Persistent organic pollutants (Reg. EC No 850/2004)

Product does not contain any persistent organic pollutants substances.

Export and import of dangerous chemicals (Reg. EC No 689/2008)

Product does not contain any dangerous chemicals according to the export and import regulation.

Seveso-III-Directive (2012/18/EU)

Product is not subject to Seveso-III-Directive.

National regulations

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Water pollution class

Product is not dangerous to water, (self-assessment according AwSV).

15.2 Chemical safety assessment

Chemical safety assessments for substances in this product were not carried out.

Section 16: Other information

16.1 Indication of changes

Chapter	Previous entry (text/value)	Latest entry
Headline	Tenax®	Tenax™
Preamble	Regulation (EU) 2015/830	Regulation (EU) 2020/878
2.3	-	Added information on SVHC and endocrine disrupting properties.
12.6	Other adverse effects	Endocrine disrupting properties

16.2 Abbreviations and acronyms

H315	Skin Irrit. 2	Causes skin irritation.
H317	Skin Sens. 1	May cause an allergic skin reaction.
H319	Eye Irrit. 2	Causes serious eye irritation.
H411	Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

A	Alveolar fraction
AK	Average concentration
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGS	German Committee on Hazardous Substances
ASGW	Workplace limits for dust in general
ATE	Acute Toxicity Estimated value
AVV	European List of Waste
AwSV	Regulation on facilities for handling substances hazardous to water
BCF	Bioaccumulation factor
BLF	Biological Limit Value
BGV	Biological Guidance Value
BSB	Biochemical oxygen demand
bw	Body weight
CAS No	Registration Number of the Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DGUV	Institute for Work and Health of the German Social Accident Insurance
DMEL	Derived Minimum Effect Level
DNEL	Derived No Effect Level
DT50	Dissipation half life
dw	Dry weight (Dry basis)
E	Inhalable fraction
EC	European Council
EC50	Median effective concentration
ECHA	European Chemical Agency
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EU	European Union
EUH	EU-Hazard Statements

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EWC	European Waste Catalogue
GHS	Globally Harmonized System
IARC	International Agency for Research of Cancer
IATA	International Air Transport Association
IC50	Inhibition concentration, 50 %
ICAO-TI	International civil Aviation Organization (Technical Instructions for the Safe Transport of Dangerous Goods by Air)
IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 %
LD50	Median lethal dose
LO(A)EL(C)	Lowest Observed (Adverse) Effect Level (Concentration)
MAK	Maximum Workplace Concentrations
MARPOL	International Convention for the Prevention of Marine Pollution from Ships
MW	Molecular weight
NOAEL(C)	No Observed Adverse Effect Level (Concentration)
NOELR	No Observable Effect Loading Rate
N.O.S.	Not otherwise specified
OEL	Occupational Exposure Limit(s) (Values)
PBT	Persistent, Bioaccumulative and Toxic substance
PEL	Permissible Exposure Limits
PNEC	Predicted No Effect Concentration
P _{ow}	Partition coefficient n-octanol/water
QSAR	Quantitative structure-activity relationship
RE	Repeated dose toxicity
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
REL	Recommended exposure limits
RID	International Carriage of Dangerous Goods by Road
SCOEL/EU	European Scientific Committee on Occupational Exposure Limits
STOT	Specific target organ toxicity
STP	Sewage treatment plant
SVHC	Substances of Very High Concern for Authorization
TRK	Technical Guidance Concentrations
TRGS	German Technical Rule for Hazardous Substances
vPvB	Very Persistent and very Bioaccumulative
AwSV	German Regulation on Installations for Handling Substances Hazardous to Water
WHO	World Health Organisation
WHO-fibre	length ≥ 5 µm, diameter ≤ 3 µm and length-to-diameter ratio 3:1
% (w/w)	Weight Percent

16.3 Key literature references and sources for data

http://www.bgbau.de/gisbau
http://www.dguv.de
http://www.dguv.de/gestis
http://www.echa.europa.eu/candidate-list-table
http://www.baua.de
https://echa.europa.eu/de
http://eur-lex.europa.eu

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16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]
Although the product is treated as an article, the classification used here has been determined based on a mixture and according to the technics of the calculation method set out in CLP regulation (EC) 1272/2008.

16.5 Training advice
Product should only be handled by trained operators.

16.6 Additional information
None known.

16.7 Other information

Inventory Status

In general, articles are exempted from compulsory registration acc. to REACH regulation. Anyhow, all ingredients comply with the registration requirements acc. to REACH (registration or pre-registration), and additionally are listed in EINECS or ELINCS.

Disclaimer

This information is given to the best of our current knowledge and describes an article with regard to safety requirements. We would like to point out that it does not represent a guarantee of properties.