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### 1 Identification of the substance / preparation and of the company

**Product:** Tenax®-A Type 383  
**Registration number:** not applicable  
**Use:** milled fiber  
**Identified use:** none  
**Method of operation:** See product information.  
**Company:** Toho Tenax Europe GmbH  
 Kasinostr. 19-21  
 42103 Wuppertal / Deutschland  
**Phone:** +49 202 32-3435  
**Fax:** +49 202 32-3303  
**Homepage:** www.tohotenax-eu.com  
**Emergency phone:** +49 (0) 2452 15-2444  
**Responsible:** safety@tohotenax-eu.com

### 2 Hazards identification

**Physico-chemical hazards:** In the supplied form the product isn't not explosive at all ; however the build-up of fine dust can lead to a risk of dust explosions. See chapter 10.  
**Human health dangers:** May produce an allergic reaction. See R-phrases.  
**Environmental hazards:** See chapter 12.  
**Other hazards:** none  
**Hazard symbols:**   
 Harmful  
**R-phrases:** R 40: Limited evidence of a carcinogenic effect.  
 May produce an allergic reaction.

### 3 Composition / Information on ingredients

Carbon fiber on basis polyacrylonitrile (Carbon)	> 95%
CAS: 308063-67-4(7440-44-0), EINECS/ELINCS: Polymer (231-153-3), EU-INDEX: , ECBnr:	
Carbon fibres (critically, < 3 µm)	> 1%
Xn, R40 CAS: , EINECS/ELINCS: , EU-INDEX: , ECBnr:	
Bisphenol A Diglycidyl Ether	0,1 - < 1%
Xi, R36/38-43 CAS: 25036-25-3, EINECS/ELINCS: , EU-INDEX: , ECBnr:	
For the wording of the listed risk phrases refer to section 16.	

### 4 First aid measures

**General information:** Change soaked clothing.  
**Inhalation:** In the event of symptoms seek for medical treatment. Ensure supply of fresh air.  
**Skin contact:** In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.  
**Eye contact:** In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.  
**Ingestion:** Supply with medical care. Induce the patient to vomit of his own accord only if fully conscious. Rinse out mouth and give plenty of water to drink.  
**Advice to doctor:** treat symptomatically

### 5 Fire-fighting measures

**Suitable extinguishing media:** foam, dry powder, water spray jet, carbon dioxide  
**Extinguishing media that must not be used:** full water jet  
**Special exposure hazards arising from the substance or preparation itself or combustion products:** risk of formation of toxic pyrolysis products, carbon monoxide (CO), not combusted hydrocarbons  
**Special protective equipment for firefighters:** Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.  
**Additional information:** Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

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### 6 Accidental release measures

**Personal precautions:** not applicable  
**Environmental precautions:** not applicable  
**Methods for cleaning up:** Dispose of absorbed material in accordance within the regulations. Take up mechanically.

### 7 Handling and storage

**Advice on safe handling:** No special measures necessary if used correctly.  
**Advice on protection against fire and explosion:** Keep away from sources of ignition - refrain from smoking. Dust can form an explosive mixture with air.  
**Requirements for storage rooms and vessels:** No special measures necessary.  
**Advice on storage compatibility:** Do not store together with oxidizing agents.  
**Further information on storage conditions:** store in a dry place, recommended storage temperature: < 50 °C, relative humidity: < 85 %

### 8 Exposure controls / personal protection

**Additional advice on system design:** Ensure adequate ventilation on workstation.

#### Ingredients with occupational exposure limits to be monitored: (GB)

Carbon fibres (critically, < 3 µm)	> 1%
250000mg/m <sup>3</sup> *, General remarks: F/m <sup>3</sup>	
Carbon fiber on basis polyacrylonitrile (Carbon)	> 95%
0,5mg/m <sup>3</sup> *, General remarks: fibres/ml (respirable fibres)	

**Respiratory protection:** short term: filter apparatus, filter P1  
**Hand protection:** butyl rubber, > 120 min (EN 374)  
**Eye protection:** safety glasses  
**Skin protection:** light protective clothing  
**General protective measures:** Do not inhale dust. Avoid contact with eyes and skin.  
**Hygiene measures:** Do not eat, drink, smoke or take drugs at work. Wash hands before breaks and after work. Use barrier skin cream.  
**Delimitation and monitoring of the environmental exposition:** not determinated

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## 9 Physical and chemical properties

<b>Form:</b>	fibre
<b>Color:</b>	black
<b>Odor:</b>	odourless
<b>pH-value:</b>	not applicable
<b>pH-value [1%]:</b>	not applicable
<b>Boiling point [°C]:</b>	not applicable
<b>Flash point [°C]:</b>	> 100
<b>Flammability [°C]:</b>	not applicable
<b>Lower explosion limit:</b>	not applicable
<b>Upper explosion limit:</b>	not applicable
<b>Oxidizing properties:</b>	no
<b>Vapour pressure [kPa]:</b>	not applicable
<b>Density [g/ml]:</b>	1,7 - 2,0
<b>Density at [°C]:</b>	20°C
<b>Bulk density [kg/m³]:</b>	not applicable
<b>Solubility in water:</b>	immiscible
<b>Partition coefficient [n-octanol/water]:</b>	not determined
<b>Viscosity:</b>	not applicable
<b>Relative vapour density determined in air:</b>	not applicable
<b>Evaporation speed:</b>	not applicable
<b>Melting point [°C]:</b>	ca. 3500
<b>Autoignition temperature [°C]:</b>	not applicable
<b>Decomposition temperature [°C]:</b>	> 650 (in air), preparation > 290

## 10 Stability and reactivity

<b>Hazardous reactions:</b>	Reactions with strong oxidizing agents. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
<b>Hazardous decomposition products:</b>	No hazardous decomposition products known.

## 11 Toxicological information

<b>Acute oral toxicity:</b>	not determined
<b>Acute dermal toxicity:</b>	not determined
<b>Acute inhalational toxicity:</b>	not determined
<b>Irritant effect on eye:</b>	not determined
<b>Irritant effect on skin:</b>	not determined
<b>Sensitization:</b>	not determined
<b>Subacute toxicity:</b>	not determined
<b>Chronic toxicity:</b>	not determined
<b>Mutagenicity:</b>	not determined
<b>Reproduction toxicity:</b>	not determined
<b>Carcinogenicity:</b>	not determined
<b>Experiences made in practice:</b>	Contains fibres with diameter below 3 micrometers. The filament is breathable (IARC). Fiber abrasion can cause mechanical skin irritation.
<b>General remarks:</b>	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.

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### 12 Ecological information

<b>Fish toxicity:</b>	not determined
<b>Daphnia toxicity:</b>	not determined
<b>Behaviour in environment compartments:</b>	not determined
<b>Behaviour in sewage plant:</b>	not applicable
<b>Bacteria toxicity:</b>	not determined
<b>Biological degradability:</b>	not determined
<b>COD:</b>	not determined
<b>BOD 5:</b>	not determined
<b>AOX-advice:</b>	not applicable
<b>2006/11/EC:</b>	none
<b>General information:</b>	Ecological data are not available.


### 13 Disposal considerations

<b>Disposal / Product:</b>	For recycling, consult manufacturer. Coordinate disposal with the authorities if necessary.
<b>Disposal / Contaminated packaging:</b>	Untaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
<b>Waste no. (recommended):</b>	160305*

### 14 Transport information

<b>Classification according to ADR:</b>	no dangerous goods ,
- <b>Classification Code:</b>	
- <b>ADR Limited Quantities:</b>	
- <b>Label:</b>	
<b>Classification according to IMDG:</b>	not classified as "Dangerous Goods" - -
- <b>IMDG Limited Quantities:</b>	
- <b>EMS:</b>	
- <b>Label:</b>	
<b>Classification according to IATA:</b>	not classified as "Dangerous Goods"
- <b>Label:</b>	

### 15 Regulatory information

<b>Exposure scenario:</b>	not applicable
<b>Chemical safety report:</b>	not applicable
<b>Labelling:</b>	All chemicals in this product are included on the "European Inventory of Existing Commercial Chemical Substances - EINECS or ELINCS". The product is classified and labelled in accordance within EC-directives.
<b>Hazard symbols:</b>	 Harmful
<b>Contains:</b>	- Bisphenol A Diglycidyl Ether - Carbon fibres (critically, < 3 µm)
<b>R-phrases:</b>	R 40: Limited evidence of a carcinogenic effect. May produce an allergic reaction.
<b>S-phrases:</b>	S 22: Do not breathe dust.
<b>Special labelling:</b>	Contains epoxy-containing compounds. Observe manufacturer's instructions.
<b>Authorisation, TITEL VII:</b>	not determined
<b>Restrictions, TITEL VIII:</b>	not determined
<b>EEC-REGULATIONS:</b>	1967/548 (2004/73, 29. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
<b>TRANSPORT-REGULATIONS:</b>	ADR (2007); IMDG-Code (33. Amdt.); IATA-DGR (2008).
<b>NATIONAL REGULATIONS (GB)</b>	EH40/2005 Workplace exposure limits with amendments October 2007.

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**16 Other informations**

<b>R-phrases (Chapter 03):</b>	R 36/38: Irritating to eyes and skin. R 40: Limited evidence of a carcinogenic effect. R 43: May cause sensitisation by skin contact.
<b>Modified position:</b>	none
<b>Observe employment restrictions for people:</b>	yes
<b>VOC (1999/13/CE):</b>	not applicable
<b>Customs Tariff:</b>	not determinated

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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