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1 Identification of the substance / preparation and of the company

Product: Tenax®-A Type 385
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: See chapter 11. See R-phrases.
Environmental hazards: See chapter 12.
Other hazards: none
Hazard symbols: 
 Harmful
R-phrases: R 40: Limited evidence of a carcinogenic effect.

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:	
For the wording of the listed risk phrases refer to section 16.	

4 First aid measures

General information: not applicable
Inhalation: Ensure supply of fresh air.
Skin contact: In case of contact with skin wash off with warm 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: none
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.

6 Accidental release measures

Personal precautions: not applicable
Environmental precautions: none
Methods for cleaning up: Dispose of absorbed material in accordance within the regulations. Take up mechanically.

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

- Respiratory protection:** Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P2.
- Hand protection:** butyl rubber, > 120 min (EN 374)
- Eye protection:** safety glasses
- Skin protection:** not applicable
- General protective measures:** Do not inhale dust. Avoid contact with eyes.
- Hygiene measures:** Wash hands before breaks and after work. Use barrier skin cream.
- Delimitation and monitoring of the environmental exposition:** not determined

9 Physical and chemical properties

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

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10 Stability and reactivity

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

11 Toxicological information

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

12 Ecological information

Fish toxicity:	not applicable
Daphnia toxicity:	not applicable
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not applicable
Bacteria toxicity:	not determined
Biological degradability:	not applicable
COD:	not determined
BOD 5:	not determined
AOX-advice:	No dangerous components.
2006/11/EC:	none
General information:	Ecological data are not available.

13 Disposal considerations

Disposal / Product:	For recycling, consult manufacturer. For recycling, consult waste disposal centres.
Disposal / Contaminated packaging:	Untaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended):	160305*

14 Transport information


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

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15 Regulatory information

Exposure scenario:	not determinated
Chemical safety report:	not determinated
Labelling:	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.
Hazard symbols:	 Harmful
Contains:	- Carbon fibres (critically, < 3 µm)
R-phrases:	R 40: Limited evidence of a carcinogenic effect.
S-phrases:	S 22: Do not breathe dust.
Special labelling:	not applicable
Authorisation, TITEL VII:	not applicable
Restrictions, TITEL VIII:	not applicable
EEC-REGULATIONS:	1967/548 (2004/73, 29. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
TRANSPORT-REGULATIONS:	ADR (2007); IMDG-Code (33. Amdt.); IATA-DGR (2008).
NATIONAL REGULATIONS (GB)	EH40/2005 Workplace exposure limits with amendments October 2007.

16 Other informations

R-phrases (Chapter 03):	R 40: Limited evidence of a carcinogenic effect.
Modified position:	none
Observe employment restrictions for people:	yes
VOC (1999/13/CE):	not applicable
Customs Tariff:	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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