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1 Identification of the substance / preparation and of the company

Product: Tenax®-J HTS40 E13
Registration number: not applicable
Use: filament yarn
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 chapter 11.
Environmental hazards: No particular hazards known.
Other hazards: none
Hazard symbols:
R-phrases: 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:	
Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight ≤ 700	0,1 - < 1%
Xi-N, R36/38-43-51/53 CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8, 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.

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.

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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)	

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 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]:	> 100
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]:	20°C
Bulk density [kg/m³]:	not applicable
Solubility in water:	immiscible
Partition coefficient [n-octanol/water]:	not determined
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), preparation > 290

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.

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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:	None fibres with diameter below 3 micrometers. The filament is not breathable (IARC). Fiber abrasion can cause mechanical skin irritation.
General remarks:	Toxicological data are not available. The product was classified on the basis of the calculation procedure of the preparation directive.

12 Ecological information

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

13 Disposal considerations

Disposal / Product:	For recycling, consult manufacturer. Coordinate disposal with the authorities if necessary.
Disposal / Contaminated packaging:	Untampered packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended):	160306

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:	The product is classified and labelled in accordance within EC-directives. All chemicals in this product are included on the "European Inventory of Existing Commercial Chemical Substances - EINECS or ELINCS".
Hazard symbols:	
Contains:	- Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700)
R-phrases:	May produce an allergic reaction.
S-phrases:	none
Special labelling:	Contains epoxy-containing compounds. Observe manufacturer's instructions.
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 36/38: Irritating to eyes and skin. R 43: May cause sensitisation by skin contact. R 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Modified position:	none
Observe employment restrictions for people:	no
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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