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1 Identification of the substance / preparation and of the company

Product: Tenax®-J HTA40 E13
Tenax®-E HTA40 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 / GERMANY
Phone: +49 202 32-3435
Fax: +49 202 32-3303
Homepage: www.tohotenax-eu.com
E-mail: safety@tohotenax-eu.com
Emergency phone: +49 (0) 228-19240 (24h)
Responsible: safety@tohotenax-eu.com

suter-kunststoffe ag
www.swiss-composite.ch
Bermfeldweg 4 CH3303 Jegenstorf +41(0)31 763 60 60 Fax 763 60 61

2 Hazards identification

Physico-chemical hazards: See chapter 10.
In the supplied form the product is not explosive at all ; however the build-up of fine dust can lead to a risk of dust explosions.
Human health dangers: See chapter 11.
May produce an allergic reaction.
Environmental hazards: No particular hazards known.
Other hazards: none
Hazard symbols: none
R-phrases: May produce an allergic reaction.

3 Composition / Information on ingredients

0,1 - < 1%	Reaction product: bisphenol-A-(epichlorhydrin) Epoxy resin (number average molecular weight \leq 700)
Xi-N, R36/38-43-51/53 CAS: 25068-38-6, EINECS/ELINCS: 500-033-5, EU-INDEX: 603-074-00-8, ECBnr:	
> 95%	Carbon fiber on basis polyacrylonitrile (Carbon)
CAS: 308063-67-4(7440-44-0), EINECS/ELINCS: Polymer (231-153-3), EU-INDEX: , ECBnr:	

Comment on component parts: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

General information: Change soaked clothing.
Inhalation: Ensure supply of fresh air.
In the event of symptoms seek for medical treatment.
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

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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:

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

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: Take up mechanically.

Dispose of absorbed material in accordance within the regulations.

7 Handling and storage

Advice on safe handling: No special measures necessary if used correctly.

Advice on protection against fire and explosion:

Dust can form an explosive mixture with air.

Keep away from sources of ignition - refrain from smoking.

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:

> 95%

Carbon fiber on basis polyacrylonitrile (Carbon), 0,5mg/m³*, General remarks: fibres/ml (respirable fibres)

*** WEL: Workplace exposure limit**

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: Avoid contact with eyes and skin.

Do not inhale dust.

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

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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 determined
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
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:	> 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.

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:	Fiber abrasion can cause mechanical skin irritation. None fibres with diameter below 3 micrometers. The filament is not breathable (IARC).
General remarks:	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

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

13 Disposal considerations

Product:	Coordinate disposal with the authorities if necessary.
Contaminated packaging:	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.
Waste no. (recommended):	160304

14 Transport information

Classification according to ADR: NO DANGEROUS GOODS

- Classification Code:

- Label:

- ADR LQ

- ADR 1.1.3.6 (8.6): Transport category (tunnel restriction code): -

Classification according to IMDG: NOT CLASSIFIED AS "DANGEROUS GOODS"

- EMS:

- Label:

- IMDG Limited Quantities:

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:	none
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 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006.
TRANSPORT-REGULATIONS:	DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2009).
NATIONAL REGULATIONS	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.
Observe employment restrictions for people:	no
VOC (1999/13/CE):	not applicable
Customs Tariff:	not determinated

Disclaimer: 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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