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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

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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 ≤ 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.

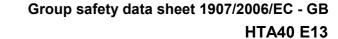
Ingestion: Supply with medical care.

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 $^{\circ}$ C, relative humidity: < 85 $^{\circ}$

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 determinated



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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 determinated Flammability [°C]: not applicable Lower explosion limit: not applicable Upper explosion limit: not applicable

Oxidizing properties: no

Vapour pressure [kPa]:not applicableDensity [g/ml]:1,7 - 2,0Density at [°C]:20

Bulk density [kg/m³]: not applicable
Solubility in water: immiscible

Partition coefficient [n-octanol/water]:

not determinated

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

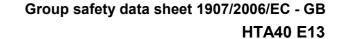
Acute oral toxicity: not determinated Acute dermal toxicity: not determinated Acute inhalational toxicity: not determinated Irritant effect on eye: not determinated Irritant effect on skin: not determinated Sensitization: not determinated Subacute toxicity: not determinated Chronic toxicity: not determinated Mutagenicity: not determinated Reproduction toxicity: not determinated Carcinogenicity: not determinated

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:
- EMS:
- Label:

NOT CLASSIFIED AS "DANGEROUS GOODS"

- IMDG Limited Quantities:

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

- Label:



Group safety data sheet 1907/2006/EC - GB HTA40 E13

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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 ≤ 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.