

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

**Product:** Tenax® HTA 5131 filament yarn

**Use:** See product information

**Company:** Toho Tenax Europe GmbH

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## 02 Composition/Information on ingredients

Substance	EINECS/ELINCS	CAS	Range [%]	Symbol/R-phr.
Epoxy resin (number average molecular weight ≤ 700) reaction product: bisphenol-A-(epichlorhydrin)	500-033-5	25068-38-6	0,1 - < 1	N-Xi-36/38-43-51/53
Carbon fiber on basis polyacrylonitrile	Polymer	308063-67-4	> 95	

## 03 Hazards identification

May produce an allergic reaction.

## 04 First aid measures

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

## 05 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. In the event of fire the following can be released: 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 with the local regulations.

## 06 Accidental release measures

**Personal precautions:** not applicable

**Environmental precautions:** not applicable

**Methods for cleaning up/taking up:** Dispose of absorbed material in accordance with the regulations. Take up mechanically.

## 07 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 %

## 08 Exposure controls/personal protection

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

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

Substance	LTEL[ppm]	LTEL[mg/m³]	General remarks:
Carbon fiber on basis polyacrylonitrile		500000	F/m³ (recommendation)
LTEL: Long-term 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:** Do not inhale dust. Avoid contact with eyes and skin.

**Hygiene measures:** At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Use barrier skin cream.

**Delimitation and monitoring of the environmental exposition:** not determinated

## 09 Physical and chemical properties

Form:	fibre
Colour:	black
Odour:	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
Combustible properties:	no
Vapour pressure [kPa]:	not applicable
Density [g/ml]:	1,7-2,0
Bulk density [kg/m³]:	not applicable
Solubility in water:	Partially miscible.
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]:	> 120
Autoignition temperature [°C]:	not applicable
Decomposition temperature [°C]:	not applicable

## 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 OECD 401</b>	not determined
<b>Acute dermal toxicity OECD 402</b>	not determined
<b>Acute inhalational toxicity OECD 403</b>	not determined
<b>Irritant effect on eye OECD 405</b>	not determined
<b>Irritant effect on skin OECD 404</b>	not determined
<b>Sensitization OECD 406</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>	Fiber abrasion can cause mechanical skin irritation.
<b>General remarks:</b>	No toxicological data are available. The product was classified on the basis of the calculation procedure of the

preparation directive.

## 12 Ecological information

<b>Fish toxicity:</b>	not determinated
<b>Daphnia toxicity:</b>	not determinated
<b>Behaviour in environment compartments:</b>	not determinated
<b>Behaviour in sewage plant:</b>	not applicable
<b>Bacteria toxicity:</b>	not determinated
<b>Biological degradability:</b>	not determinated
<b>COD:</b>	not determinated
<b>BOD5:</b>	not determinated
<b>AOX-advice:</b>	not applicable
<b>76/464/EC:</b>	none
<b>General information:</b>	Ecological data are not available.

## 13 Disposal considerations

<b>Disposal/Product:</b>	Dispose of as hazardous waste. Coordinate disposal with the authorities if necessary.
<b>Waste no. (recommended):</b>	070213
<b>Disposal/Contaminated packaging:</b>	Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

## 14 Transport information

<b><u>Classification according to ADR:</u></b>	no dangerous goods
<b>Declaration:</b>	
<b>Labelling:</b>	
<b>Factor, ADR 1.1.3.6:</b>	
<b>LQ, ADR 3.4.6:</b>	
<b>Hazard-no:</b>	
<b>Label:</b>	
<b>Vapour pressure [kPa]:</b>	not applicable
<b><u>Classification according to IMDG:</u></b>	
<b>Declaration:</b>	not classified as dangerous goods
<b>Labelling:</b>	
<b>LQ, [l/kg]:</b>	
<b>Label:</b>	
<b>EmS:</b>	
<b><u>Classification according to IATA:</u></b>	not classified as dangerous goods
<b>Declaration:</b>	
<b>Labelling:</b>	
<b>Label:</b>	

## 15 Regulatory information

**Labelling:** The product is classified and labelled in accordance with EC directives All chemicals in this product are included on the European Inventory of Existing Commercial Chemical Substances - EINECS or ELINCS.

**Hazard symbols:**

contains:

Epoxy resin (number average molecular weight  $\leq 700$ ) reaction product: bisphenol-A-(epichlorhydrin)

May produce an allergic reaction.

### 15.1 Special labelling for certain preparations

Contains epoxy-containing compounds. Observe manufacturer's instructions.

### 15.2 National regulations (GB)

not determined

## 16 Other informations

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.

### 16.1 Sources of documentation

EEC:91/155 (2001/58); 67/548 (2004/73), 29. ATP; 1999/45 (2001/60); 91/689 (2001/118); 89/542; 1999/13  
Transport information: ADR (2005); IMDG-Code (31.Amdt.); IATA-DGR (2005)

### 16.2 Additional information:

**Observe employment  
restrictions for people:**

no

**VOC, 1999/13/EG**

not applicable

**Customs Tariff:**

not determined

### 16.3 Information on ingredients - 89/542/EWG

not applicable

### 16.4 Modified position:

none