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1 Identification of the substance / preparation and of the company

Product: Tenax®-J UMS40 F23
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: See chapter 11.
Environmental hazards: No particular hazards known.
Other hazards: none
Hazard symbols:

R-phrases: none

3 Composition / Information on ingredients

| | |
|--|-------|
| Carbon fiber on basis polyacrylonitrile (Carbon) | > 95% |
| CAS: 308063-67-4, EINECS/ELINCS: Polymer, EU-INDEX: , ECBnr: | |
| No dangerous components. | |

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

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| 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)

(not applicable)

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| Respiratory protection: | short term: filter apparatus, filter P1 |
| 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 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

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| 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

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| 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. |
| 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

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|---|------------------------------------|
| 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

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|---|---|
| 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

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| 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

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| Exposure scenario: | not applicable |
| Chemical safety report: | not applicable |
| Labelling: | All chemicals in this product are included on the "European Inventory of Existing Commercial Chemical Substances - EINECS or ELINCS". The product does not require a hazard warning label in accordance with EC-directives. |
| Hazard symbols: | |
| R-phrases: | none |
| S-phrases: | none |
| 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

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| 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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