

Revision 01 (en), print data 1 Apr. 2016, updated 1 Apr. 2016

According to Regulation (EC) No 1907/2006 [REACH] Art. 3 Part 3 this product is classified as article, hence no obligation exists to create a safety data sheet as required by REACH Art. 31/32. This Product Information was created in the style of REACH Annex II/Regulation (EU) 2015/830 to inform about a safe and careful handling with this product.

Chapter 1: Identification of the article and of the company

- 1.1 Product Identifier** Tenax® Pyromex
- 1.1.1 Product types** Tenax® CPX
- 1.2 Recommended use** As material using for fire and heat protection as well as high-temperature carbon/carbon (C/C) component.
- 1.2.1 Uses advised against** None
- 1.3 Details of the supplier/site**
- 1.3.1 Europa** Toho Tenax Europe GmbH
Kasinostr. 19-21
42103 Wuppertal
GERMANY
Tel: +49 202 32-3225
Homepage: www.tohotenax-eu.com
- America** Toho Tenax America, Inc.
121 Cardiff Valley Road
Rockwood, TN 37854
USA
Tel: +1 865 354 4120
Homepage: www.tohotenaxamerica.com
- 1.3.2 Responsible department/qualified person**
- Europa** Dr Axel Leuchter
General Manager Quality & Compliance
E-Mail: safety@tohotenax-eu.com
- America** Jason Carling
Global Director of Product Development
E-Mail: jcarling@tohotenax-us.com
- Mark Klemmer
ES&H Manager
E-Mail: mklemmmer@tohotenax-us.com

Chapter 2: Hazards identifications

- 2.1 Classification** This product is an article, and hence does not require a classification and labelling according to EU regulations.
- 2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]** Not classified as hazardous.
See chapter 3
- 2.2 Labelling elements** Not subject to classification.

Revision 01 (en), print data 1 Apr. 2016, updated 1 Apr. 2016

- 2.2.1 Precautionary instruction** P280: Wear protective gloves.
- 2.3 Other hazards** With respect to health and environment risks, as long as safety instructions are followed, no other hazards are to be feared.
See chapter 11

Chapter 3: Composition/information of ingredients

- 3.1 Product type** This product is an article acc. to regulation (EC) No 1907/2006 [REACH].

3.2 Composition/information of ingredients

wt [%]	Substance	CAS EINECS/ELINCS EU-INDEX	GHS/CLP:
≤ 99	Poly(acrylonitrile), oxidized	68908-35-0 614-761-7 -	-

- 3.2.1 Comment on component parts**
None
- 3.2.2 Inventory Status** In general, articles are exempted from compulsory registration acc. to REACH regulation. Anyhow all ingredients comply with the registration requirements acc. to REACH (registration or pre-registration), and additionally are listed in EINECS or ELINCS as well as EPA's TSCA.
- 3.2.3 SVHC (candidate list)** The product does not contain any or less than 0.1 wt % of substances of very high concern as listed.

Chapter 4: First aid measures
4.1 Description of first aid measures

- 4.1.1 General information** No special measures are necessary.
- 4.1.2 Inhalation** Not applicable
- 4.1.3 Skin contact** In the case of contact with skin, rinse affected area immediately with plenty of warm water. Consult a doctor if skin irritation persists.
- 4.1.4 Eye contact** In the case of eye contact, rinse the affected eye thoroughly for a few minutes. Remove contact lenses, if present and easy to do, continue rinsing. If eye irritation persists, seek medical attention.
- 4.1.5 Ingestion** Seek medical care. Rinse mouth out with water then give plenty of water to drink.
- 4.2 Most important symptoms and effects, both acute and delayed**
No information available.
- 4.3 Indication of any immediate medical attention and special treatment needed**
Symptomatic treatment.

Chapter 5: Firefighting measures

Revision 01 (en), print data 1 Apr. 2016, updated 1 Apr. 2016

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide

5.1.2 Not suitable extinguishing media for safety reasons

Full water jet

5.2 Special hazards arising from the article

At temperatures above ≥ 500 °C, hazardous decomposition and degradation products as well as hazardous pyrolysis residues might occur.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases. Use self-contained breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with local regulations.

Chapter 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedure

Use personal protective clothing.

6.2 Environmental precautions

No special measures are required.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Dispose of contaminated material in accordance with regulations.

6.4 Reference to other sections

See Chapter 7, 8 and 13

Chapter 7: Handling and storage

7.1 Precautions for safe handling

Avoid skin contact by wearing appropriate protective clothing (suitable gloves). General hygiene rules must be observed: Wash hands before breaks and at the end of work. Protect skin by using skincare ointment.

7.2 Conditions for safe storage, including any incompatibilities

Store the article in the original packaging in dry rooms. Recommended storage temperature: ≤ 50 °C, relative humidity: ≤ 85 %.

7.3 Specific end uses

See product use, Chapter 1.2

Chapter 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 Ingredients with occupational exposure limits to be monitored

Substances	CAS	Occupational exposure limits (OEL)	Country	Sources
Poly(acrylonitrile), oxidized	68908-35-0	-	-	-

8.2 Exposure controls

None

Revision 01 (en), print data 1 Apr. 2016, updated 1 Apr. 2016

- 8.2.1 Additional advice on system design** Ensure adequate ventilation on workplace.
- 8.2.2 Eye protection** Protection goggles
- 8.2.3 Hand protection** In the event of skin contact with the product, wear protective gloves for sufficient protection according to ie EN 374. In any case, the protective gloves should be tested for its workplace-specific suitability (eg mechanical resistance, product compatibility and antistatic properties).
- 8.2.4 Additional protective measures** Personal protective equipment should be selected specifically for the work place.
- 8.2.5 Respiratory protection** In the case of fiber dust, use mouth protection.
- 8.2.6 Delimitation and monitoring of the environmental exposition** Not specified

Chapter 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9.1.1 Appearance

Form	Solid, non-crimped tow or crimped staple fiber
Color	Black
Odor	Odorless

9.1.2 Basic physical and chemical properties

Inflammability and explosion limits

Upper	Not applicable
Lower	Not applicable

Oxidizing properties

Density 23 °C [g/cm³] 1.35 – 1,45

Melting point [°C] Not applicable

Decomposition temp. ≥ 500 (ambient air), Sizing ≥ 290

9.2 Other information

Spec. electr. resistance 10¹⁰ – 10¹² Ohm cm

Chapter 10: Stability and reactivity

- 10.1 Reactivity/stability** Product is not reactive and stable under normal conditions for transfer, storage and applications.
- 10.2 Conditions to avoid** Do not heat up above decomposition temperature mentioned. See Chapter 5.2, 9.1.2
- 10.3 Incompatible materials** None
- 10.4 Hazardous decomposition products** None if used for intended purpose.

Chapter 11: Toxicological information

Revision 01 (en), print data 1 Apr. 2016, updated 1 Apr. 2016

11.1 Information on toxicological information

Toxicological effects of the article are not studied.

11.1.2 Acute toxicity

Not specified

11.1.3 General information

None

Chapter 12: Ecological information
12.1 Toxicity

Toxicity of the article is not studied.

12.1.1 Results of the PBT and vPvB assessment

Not specified

12.1.2 Other adverse effects

The article is inert to naturally occurring substances in soil. Due to the residents to rotting, do not release into the environment or sewers. It is not known that the article has got an ozone depletion effect or a global warming potential

Chapter 13: Disposal considerations
13.1 Waste treatment methods

Article residues should be disposed of in compliance with Directive on Waste 2008/98/EC as well as national and regional regulations. For the article, it is not possible to determine a waste code number according to the European Waste Catalogue (EWC) as only the intended use by the customer enables an allocation. The waste code number has to be determined within the EU in accordance with the local waste disposer.

13.1.1 Article

If necessary, coordinate disposal with the authorities.

AVV-No. (recommended)

 070299 Wastes from MFSU of plastics, synthetic rubber and man-made fibres, if otherwise not specified.
160306 Organic wastes.

13.2 Contaminated packaging

 Non-contaminated packaging may be taken for recycling.
Contaminated packaging must be disposed of like the article.

AVV-No. (recommended)

 150101 Packaging made of paper and cardboard.
150102 Packaging made of plastic.

Chapter 14: Transport information

14.1 With reference to the transport regulations the article is classified as:

NO DANGEROUS GOODS
Chapter 15: Regulatory information
15.1 Safety, health and environmental regulations/specific legislations

The national health and occupational safety regulations have to be considered when handling or processing the product.

15.1.1 National regulations

See Chapter 8

Article does not contain substances that deplete the ozone layer.

15.1.2 Employment restriction

None known

15.1.3 Water pollution class

Not hazardous to water.

15.2 Chemical safety assessment

Chemical safety assessments for substances in this product were not carried out.

Chapter 16: Other information
16.1 Changes compared to the last version
Revision 01

First edition.

In view of the data content, this information sheet has been completely revised. Unlike previous definition, the Toho Tenax has concluded that thermally stable, oxidized PAN-Fiber (OPF) is regarded as an article in accordance with REACH Regulation (EC) No 1907/2006. TTE has come to the firm conviction that during production oxidized PAN-Fiber (OPF) is given a special shape, surface or design, which determines its function to a greater degree than does its chemical composition. Therefore it has to be treated as an article.

16.2 Hazard information (Chapter 2 and 3)

No hazard statements.

16.2.1 Supplemental hazard information (EU)

None

16.3 Literature references and sources for data
16.3.1 Regulations

In their respective current versions:

REACH Regulation (EC) No. 1907/2006, Regulation (EU) 2015/830

CLP Regulation (EC) No 1272/2008,

VwVwS, VOC 2004/42/CE, Ozone Regulation (EC) No 2037/2000,

RoHS Directive 2011/65/EU, National Maternity Protection as well as Youth Employment Acts

National Workplace Exposure Limits of corresponding countries

16.3.2 Internet
<http://www.baua.de>
<http://www.echa.europa.eu/candidate-list-table>
<http://www.esdscom.eu>
<http://www.echemportal.org>
<http://eur-lex.europa.eu>
<http://www.epe.gov/tsca-inventory>
16.4 Abbreviations
acc. to according to

AVV Abfallverzeichnis-Verordnung

European List of Waste (Wastregulation)

CAS Chemical Abstracts Service

CLP Classification, Labelling and Packaging

EC European Council

EINECS European Inventory of Existing Commercial Chemical Substances

ELNICS European List of Notified Chemical Substances

EPA United States Environmental Protection Agency

EU European Union

EUH EU-Hazard Statements

GHS Globally Harmonised System for Classification and Labelling

MFSU Wastes from manufacture, formulation, supply and use

PBT Persistent, Bioaccumulative and Toxic substance

REACH Registration, Evaluation, Authorization and Restriction of Chemicals

RoHS Restriction of Hazardous Substances Directive

SVHC Substances of Very High Concern for Authorization

TSCA Toxic Substances Control Act

Revision 01 (en), print data 1 Apr. 2016, updated 1 Apr. 2016

	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds Directive
vPvB	very Persistent and very Bioaccumulative
VwVwS	Verwaltungsvorschrift wassergefährdende Stoffe Administrative Regulation of Water-Polluting Substances
wt %	Weight Percent

16.5 Other information

16.5.1 Self-declaration	None
16.5.2 Customs tariff number	55013000, 55063000
16.5.3 VOC (2004/42/EC)	Not applicable
16.5.4 RoHS (EU) 2015/863	This product does not contain any substances listed in RoHS (or contains in concentrations below the limits as specified therein).
16.5.5 Disclaimer	This information is given to the best of our current knowledge and describes an article with regard to safety requirements. We would like to point out that it does not represent a guarantee of properties.