

## MATERIAL SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 of the European Parliament and of the Council

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation	<u>Tender Fiber Zero</u> (product code: TF01)
1.2 Use of the substance/preparation:	Reinforcement temporary fibers.
1.3 Company/undertaking identification:	Manufacturer  Micerium S.p.A Via G. Marconi 83 16030 Avegno (GE) –Italy Phone: +39. 0185. 7887870 fax +39. 0185. 7887970
1.4 Emergency telephone:	Poison Control Center San Martino Hospital (Genova, Italy) Phone: +39 010 352808 (available 24 hours/ 24)

### 2. HAZARDS IDENTIFICATION

2.1 Substance or mixture classification	This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.
2.2 Label elements	NA
2.3 Other hazards	NA

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Main ingredients:	Polyethylene, homopolymer				
3.2 Mixtures:	<b>Common name for the compound</b>	<b>CAS-number</b>	<b>Content</b>	<b>Symbol</b>	<b>Hazard and precautionary statement</b>
	Polyethylene	9002-88-4	-	-	-

\* full text of R and S-Phrases can be found under heading 16

### 4. FIRST AID MEASURES

4.1 First aid measures' description:	NA
Measure to be adopted when:	
- It contacts eyes:	Remove contact lenses. Flush eyes with clear running water for 15 minutes while holding eyelids open; if irritation persists, seek medical attention.
- It contacts skin:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation develops or persists, seek medical attention.
- Inhaled:	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.
- Ingested:	Rinse mouth. Do not induce vomiting without medical advice. Get medical advice/attention.
4.2 Most important symptoms and effects, acute and delayed:	May cause skin and eye irritation.
4.3 Indication of any immediate medical attention and special treatment needed:	Provide this SDS to medical personnel for treatment. Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media:	
Suitable extinguishing media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
Extinguishing media which shall not be used for safety reasons:	NA
5.2 Special exposure hazards arising from the substance or from the mixture:	Carbon oxides.

Legend: NA = not applicable; ND = not available data

<b>5.3 Recommendation for firefighters:</b>	NA
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Treat as a structural fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective devices and procedures in case of emergency:</b>	Wear protective clothing as described in Section 8 of this safety data sheet.
<b>6.2 Environmental precautions:</b>	See Section 12 for additional Ecological Information
<b>6.3 Measures for cleaning/collecting:</b>	Prevent further leakage or spillage if safe to do so. Avoid creating dust. Sweep, scoop, or vacuum the discharged material. Keep in suitable, closed containers for disposal. For waste disposal, see section 13 of the SDS.
<b>6.4 Reference to other sections</b>	(If appropriate refer to headings 8 and 13)

## 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe Handling:</b>	Fibers are difficult to cut with knives or scissors. Do not attempt to break fibers with bare hands. Protect against contact with moving yarn. Fibers are high tenacity, high modulus yarns. Use personal protection recommended in Section 8. Handle in accordance with good industrial hygiene and safety practice
<b>Indications in case of fire and explosion</b>	NA
<b>7.2 Conditions for safe Storage including any incompatibilities:</b>	Keep container tightly closed and store in a cool, dry and well-ventilated place. Incompatible with strong oxidizing agents.
<b>7.3 Specific use(s):</b>	NA

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Further information on the structure of technical systems:

<b>8.1 Exposure limit values:</b>	No exposure limits noted for ingredient(s). The following information is given as general guidance		
<b>Further information</b>	Maintain eye wash fountain and quick-drench facilities in work area. Ensure adequate ventilation, especially in confined areas.		
<b>8.2 Exposure controls:</b>	NA		
<b>8.2.1 Suitable technical checks</b>	NA		
<b>8.2.2 Individual protection measures, such as personal protective equipment:</b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.		
<b>8.2.1.a Eye/face protection:</b>	Safety glasses are recommended during processing. Refer to 29 CFR 1910.133 for eye and face protection regulations.		
<b>8.2.1.b Hand/skin protection:</b>	Wear protective gloves and protective clothing. Refer to 29 CFR 1910.138 for appropriate skin and body protection.		
<b>8.2.1.c Respiratory protection:</b>	Use NIOSH-approved dust mask if dusty conditions exist. Refer to 29 CFR 1910.134 for respiratory protection requirements.		
<b>8.2.1.d Thermal hazard:</b>	NA		
<b>8.2.3 Environmental exposure controls:</b>	NA		

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

<b>Aspect:</b>	Natural yarn		
<b>Physical state:</b>	Solid		
<b>Colour:</b>	White		
<b>Odour (pH):</b>	Odorless		
<b>Fusion point/freezing point:</b>	147°C / 296.6°F	<b>Relative density:</b>	NA
<b>Boiling point/boiling range:</b>	NA	<b>Solubility:</b>	NA

Legend: NA = not applicable; ND = not available data

Flash point:	NA	Partition coefficient: n-octanol/water:	NA
Flammability (solid, gas):	NA	Viscosity:	
Upper / lower flammability or explosive limits		Vapour pressure:	NA
Explosive properties:	NA	Vapour density:	NA
Oxidising properties:	NA	Evaporation rate:	NA
Decomposition temperature:	NA		
Auto-ignition temperature:	NA		

**9.2 Other information:**

Miscibility:	NA	Gas group:	NA
Fat solubility (solvent — oil to be specified):	NA		
Conductivity:	NA		

**10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Not reactive under normal conditions.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of dangerous reactions</b>	None under normal processing. Hazardous polymerization does not occur.
<b>10.4 Conditions to avoid:</b>	Incompatible Materials.
<b>10.5 Incompatible materials</b>	Strong oxidizing agents.
<b>10.6 Hazardous decomposition products:</b>	Carbon monoxide. Carbon dioxide (CO <sub>2</sub> ). Various oxidized and non-oxidized hydrocarbons.

**11. TOXICOLOGICAL INFORMATION**

<b>LD/LC50 values relevant for classification:</b>	<b>Polyethylene wax</b> Oral LD50: 8 g/kg ( Rat )
<b>11.1 Information on toxicological effects</b>	Please see section 4 of this SDS for symptoms.
<b>11.1.1 Acute toxicity:</b>	NA
<b>11.1.2 Skin contact:</b>	Avoid contact with skin and clothing.
<b>11.1.3 Eye contact:</b>	Avoid contact with eyes.
<b>11.1.4 Respiratory/skin sensitisation:</b>	Do not inhale.
<b>11.1.5 Germ cell mutagenicity:</b>	NA
<b>11.1.6 Carcinogenicity:</b>	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
<b>11.1.7 Reproductive toxicity</b>	NA
<b>11.1.8 Specific target organ toxicity (STOT) single exposure:</b>	NA
<b>11.1.9 Specific target organ toxicity (STOT) repeated exposure:</b>	NA
<b>11.1.10 Danger in case of aspiration</b>	NA

**12. ECOLOGICAL INFORMATION**

<b>12.1 Toxicity:</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
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<b>Aquatic toxicity</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
<b>12.2 Persistence and degradability</b>	NA
<b>12.3 Bioaccumulative potential:</b>	NA
<b>12.4 Mobility:</b>	NA
<b>12.5 Results of PBT and vPvB assessment</b>	NA
<b>PBT:</b>	
<b>vPvB:</b>	
<b>12.6 Other adverse effects:</b>	NA

### 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste methods:</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Advice</b>	NA
<b>Uncleaned packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Advice / Recommended detergent</b>	NA

### 14. INFORMATION ON TRANSPORT

Indicate for each, where appropriate:	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
UN number	
class	
proper shipping name	
Packing group	
Marine pollutant	
Other applicable information	
<b>14.1 UN number:</b>	NA
<b>14.2 UN shipping name:</b>	NA
<b>By sea (IMDB):</b>	NA
<b>By road (ADR):</b>	NA
<b>By air (ICAO / IATA):</b>	NA
<b>14.3 Transport hazard class:</b>	NA
<b>Class:</b>	NA
<b>Label:</b>	NA
<b>14.4 Packing group:</b>	NA
<b>14.5 Environmental hazard:</b>	NA
<b>14.6 Special precautions for users:</b>	NA
<b>Kemler number:</b>	NA
<b>EMS number:</b>	NA
<b>Stowage category:</b>	NA
<b>14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code</b>	NA

### 15. REGULATORY INFORMATION

<b>15.1 Legislative and regulatory provisions on health, safety and environment specific to the substance or mixture</b>	<b>US Federal Regulations</b>
	<b>CERCLA</b>
	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).
	<b>SARA 311/312 Hazard Categories</b>
	This material, as supplied, does not contain any substances subject to the requirements of SARA Sections 311/312 (40 CFR 370)
	<b>SARA 313</b>

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Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**15.2 Evaluation of chemical safety:**

Chemical name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KELC	PICCS	AICS
Polyethylene wax	Present	X				Present	X	Present	X	X

**16. OTHER INFORMATION**

**16.1 List of relevant phrases:** NA

**16.2 Training advice:** NA

**16.3 Recommended restrictions on use:** Only for professional use

**16.4 Further information:** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**16.5 Sources of key data used to compile the Safety Data Sheet:** NA

**16.6 Changes from the previous version (if available):** Totally updated sheet, following most recent regulations

**16.7 Released by:** Micerium S.p.A