## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Steel Fiber &amp; PP-Steel Fiber Blends for Concrete Reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synonyms</td>
<td>Polyolefin Fibers for Concrete Reinforcement; PP/PE Fibers for Concrete Reinforcement</td>
</tr>
</tbody>
</table>

1.2 Relevant identified uses of the substance or mixture and uses advised against

<table>
<thead>
<tr>
<th>Relevant identified use(s)</th>
<th>Fibers for Concrete Reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use(s) advised against</td>
<td>Other than intended by manufacturer</td>
</tr>
</tbody>
</table>

1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Sika Fibers, LLC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4019 Industry Drive</td>
</tr>
<tr>
<td></td>
<td>Chattanooga, TN 37416</td>
</tr>
<tr>
<td></td>
<td>United States</td>
</tr>
<tr>
<td></td>
<td><a href="http://www.fibermesh.com">www.fibermesh.com</a></td>
</tr>
</tbody>
</table>

| Telephone (General) | 1-833-236-1255 |

1.4 Emergency telephone number

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>1-800-424-9300 - Chemtrec - North America</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manufacturer</td>
<td>1-703-527-3887 - Chemtrec - International</td>
</tr>
</tbody>
</table>

## Section 2: Hazards Identification

EEC


2.1 Classification of the substance or mixture

| CLP | Not classified |

2.2 Label Elements

| CLP | Hazard: No label element(s) required |

2.3 Other Hazards

| CLP | This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance. |
2.1 Classification of the substance or mixture

UN GHS • Not classified

2.2 Label elements

UN GHS

Hazard statements • No label element(s) required

Precautionary statements

2.3 Other hazards

UN GHS • Under United Nations Globally Harmonized System for the Classification and Labeling of Hazardous Chemicals (GHS) this product is exempt from regulation as a manufactured article

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified

2.2 Label elements

OSHA HCS 2012

Hazard • No label element(s) required

Precautionary statements

2.3 Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use.

Canada
According to: WHMIS

2.1 Classification of the substance or mixture

WHMIS • Not classified

2.2 Label elements

WHMIS • No label element(s) required.

2.3 Other hazards

WHMIS • Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) - Hazardous Products Act (HPA), Section 11(1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.
Section 3 - Composition/Information on Ingredients

3.1 Substances

* Material does not meet the criteria of a substance.

3.2 Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel Fibers</td>
<td>NDA</td>
<td>N/A</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Proprietary</td>
<td>89.645% TO 100%</td>
</tr>
<tr>
<td>PP Fibers</td>
<td>NDA</td>
<td>0% TO 9%</td>
</tr>
<tr>
<td>Polypropylene</td>
<td>CAS:9003-07-0</td>
<td>N/A</td>
</tr>
<tr>
<td>Lubricants: Fatty acids &amp; esters</td>
<td>NDA</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

4.1 Description of first aid measures

**Inhalation**  
First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

**Skin**  
First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

**Eye**  
First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

**Ingestion**  
First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

4.2 Most important symptoms and effects, both acute and delayed  
Under normal conditions of use, no health effects are expected.

4.3 Indication of any immediate medical attention and special treatment needed  
No specific actions or treatments recommended related to exposure to this material.

Section 5 - Firefighting Measures

5.1 Extinguishing media

**Suitable**  
- Carbon dioxide, regular dry chemical, regular foam, water.

**Unsuitable**  
- No data available.
5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Slight fire hazard due to presence of polypropylene fibers in blend. Steel fibers are not a fire hazard.
- Reaction of steel fibers with strong acids will generate hydrogen gas, which is highly flammable.

Hazardous Combustion Products
- Incomplete burning of polypropylene component can produce carbon monoxide and/or carbon dioxide and other harmful products. Inhalation of high concentrations of freshly formed oxide fumes may cause metal fume fever, which is characterized by a metallic taste in the mouth, dryness and irritation of the throat, and influenza-type symptoms.

5.3 Advice for firefighters
- Wear positive pressure self-contained breathing apparatus (SCBA).
- Structural firefighters’ protective clothing will only provide limited protection.
- Move material from fire area if it can be done without risk.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions
- No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Emergency Procedures
- No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

6.2 Environmental precautions
- Keep out of drains and water sources.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Contain and remove by mechanical means.

6.4 Reference to other sections
- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling
- Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage
- Store and handle in accordance with all current regulations and standards. Keep separated from strong acids and oxidizing substances. Keep product away from moisture prior to use to avoid deterioration of the paper packaging.

7.3 Specific end use(s)
- Refer to Section 1.2 - Relevant identified uses.
### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Czech Republic</th>
<th>Latvia</th>
<th>Russia</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene (9003-07-0) TWAs</td>
<td>5 mg/m3 TWA (dust)</td>
<td>5 mg/m3 TWA (dust, listed under</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Polymer dust)</td>
<td></td>
</tr>
<tr>
<td>Proprietary (Proprietary) TWAs</td>
<td>Not established</td>
<td>Not established</td>
<td>10 mg/m3 TWA (aerosol)</td>
</tr>
</tbody>
</table>

#### 8.2 Exposure controls

**Engineering**
- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**Personal Protective Equipment**

- **Respiratory**
  - None required; however, use of adequate ventilation is good industrial practice.

- **Eye/Face**
  - None required; however, use of eye protection is good industrial practice.

- **Skin/Body**
  - Protective gloves are recommended for handling bags of fiber or loose fiber.

- **Environmental Exposure Controls**
  - Follow best practice for site management and disposal of waste.

**Key to abbreviations**

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

### Section 9 - Physical and Chemical Properties

#### 9.1 Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>General Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical Form</strong></td>
<td>Solid</td>
<td></td>
<td><strong>Boiling Point</strong></td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Metallic gray, colorless, light gray, or white.</td>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
<td>No data available</td>
<td></td>
<td><strong>Decomposition Temperature</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>General Properties</strong></td>
<td></td>
<td></td>
<td><strong>Specific Gravity/Relative Density</strong></td>
</tr>
<tr>
<td><strong>Boiling Point</strong></td>
<td>No data available</td>
<td></td>
<td>7 to 8 for steel fibers; 0.9 for polypropylene fibers</td>
</tr>
<tr>
<td><strong>Melting Point/Freezing Point</strong></td>
<td>No data available</td>
<td></td>
<td><strong>Negligible &lt; 0.1 %</strong></td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>No data available</td>
<td></td>
<td><strong>Viscosity</strong></td>
</tr>
<tr>
<td><strong>Steel Fibers</strong>:</td>
<td></td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Polypropylene Fibers</strong>:</td>
<td></td>
<td></td>
<td><strong>Explosive Properties</strong></td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
<td></td>
<td></td>
<td><strong>None</strong></td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>No data available</td>
<td></td>
<td><strong>Vapor Density</strong></td>
</tr>
<tr>
<td><strong>Evaporation Rate</strong></td>
<td>No data available</td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td>315 °C(599 °F)</td>
<td>UEL</td>
<td><strong>For PP fiber</strong></td>
</tr>
<tr>
<td><strong>UEL</strong></td>
<td>No data available</td>
<td></td>
<td><strong>No data available</strong></td>
</tr>
<tr>
<td><strong>LEL</strong></td>
<td>No data available</td>
<td></td>
<td><strong>Autoignition</strong></td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
<td></td>
<td></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Vapor Pressure</strong></td>
<td>No data available</td>
<td></td>
<td><strong>Flammability</strong></td>
</tr>
<tr>
<td><strong>Flash Point</strong></td>
<td></td>
<td></td>
<td><strong>No data available</strong></td>
</tr>
<tr>
<td><strong>LEL</strong></td>
<td></td>
<td></td>
<td><strong>None</strong></td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
<td></td>
<td><strong>No data available</strong></td>
</tr>
</tbody>
</table>

**Environmental**
9.2 Other Information
• See section 5 for unusual fire and explosion hazards.

Section 10: Stability and Reactivity

10.1 Reactivity
• No dangerous reaction known under conditions of normal use.

10.2 Chemical stability
• Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions
• Hazardous polymerization will not occur.

10.4 Conditions to avoid
• Avoid contact with strong acids and oxidizers. Keep bags in dry area to minimize deterioration of the packaging.

10.5 Incompatible materials
• Oxidizing materials and strong acids.

10.6 Hazardous decomposition products
• Incomplete burning of polypropylene component can produce carbon monoxide and/or carbon dioxide and other harmful products. Inhalation of high concentrations of freshly formed oxide fumes may cause metal fume fever, which is characterized by metallic taste in the mouth, dryness and irritation of the throat, and influenza-type symptoms.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>EU/CLP: Not relevant UN GHS 3: Not relevant OSHA HCS 2012: Not relevant</td>
</tr>
<tr>
<td>Skin corrosion/Irritation</td>
<td>EU/CLP: Not relevant UN GHS 3: Not relevant OSHA HCS 2012: Not relevant</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>EU/CLP: Not relevant UN GHS 3: Not relevant OSHA HCS 2012: Not relevant</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>EU/CLP: Not relevant UN GHS 3: Not relevant OSHA HCS 2012: Not relevant</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>EU/CLP: Not relevant UN GHS 3: Not relevant OSHA HCS 2012: Not relevant</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>EU/CLP: Not relevant</td>
</tr>
</tbody>
</table>
**Potential Health Effects**

**Inhalation**

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • Under normal conditions of use, no health effects are expected.

**Skin**

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • Under normal conditions of use, no health effects are expected.

**Eye**

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • Under normal conditions of use, no health effects are expected.

**Ingestion**

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)** • Under normal conditions of use, no health effects are expected.

11.2 Other information

• The toxicological properties have not been fully investigated. Polypropylene was tested in rats by subcutaneous implantation of discs or powder. Local sarcomas were induced at the site of implantation. Subcutaneous injections are not a normal route of exposure. All inorganic pigments, if present in of this product, are considered to be fully bound within the polymer matrix, and therefore, are not readily available under normal conditions.

**Section 12 - Ecological Information**

12.1 Toxicity

• Sika Fibers, LLC has not conducted ecological testing on this material.

12.2 Persistence and degradability

• No data available
12.3 Bioaccumulative potential
• No data available

12.4 Mobility in Soil
• No data available

12.5 Results of PBT and vPvB assessment
• No PBT and vPvB assessment has been conducted.

12.6 Other adverse effects
• No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods
Product waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Packaging waste • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>DOT</th>
<th>14.1 UN number</th>
<th>14.2 UN proper shipping name</th>
<th>14.3 Transport hazard class(es)</th>
<th>14.4 Packing group</th>
<th>14.5 Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>TDG</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>NDA</td>
<td>Not Regulated</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

• None specified.

14.6 Special precautions for user
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code • Not Applicable – Article.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
SARA Hazard Classifications • None

<table>
<thead>
<tr>
<th>Component</th>
<th>Inventory</th>
<th>CAS</th>
<th>Canada DSL</th>
<th>Canada NDSL</th>
<th>EU EINECS</th>
<th>EU ELNICS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polypropylene</td>
<td>9003-07-0</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Proprietary</td>
<td>Proprietary</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>

Canada

Labor
Canada - WHMIS - Classifications of Substances
• Proprietary

Proprietary Uncontrolled product according to WHMIS
• Polypropylene 9003-07-0

Canada - WHMIS - Ingredient Disclosure List
• Proprietary
• Polypropylene 9003-07-0

Environment
Canada - CEPA - Priority Substances List
• Proprietary
• Polypropylene 9003-07-0

United States
Labor
U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - OSHA - Specifically Regulated Chemicals
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

Environment
U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

United States - California
Environment
U.S. - California - Proposition 65 - Carcinogens List
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - California - Proposition 65 - Developmental Toxicity
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)
• Proprietary 9003-07-0
• Polypropylene 9003-07-0

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)
• Proprietary 9003-07-0
15.2 Chemical Safety Assessment

• Chemical Safety Assessment is not required.

Section 16 - Other Information

<table>
<thead>
<tr>
<th>Revision Date</th>
<th>26/April/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation Date</td>
<td>01/August/2006</td>
</tr>
</tbody>
</table>

Disclaimer/Statement of Liability

• This publication should not be construed as engineering advice. While information contained in this publication is accurate to the best of our knowledge, Sika Fibers, LLC does not warrant its accuracy or completeness. The ultimate customer and user of the products should assume sole responsibility for the final determination of the suitability of the information and the products for the contemplated and actual use. The only warranty made by Sika Fibers, LLC for its products is set forth in our product data sheets for the product, or such other written warranty as may be agreed by Sika Fibers, LLC and individual customers. Sika Fibers, LLC specifically disclaims all other warranties express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.

Key to abbreviations
NDA = No Data Available