

# Safe Use Instruction Sheet (SUIS) for STRUCELL® P

revised: October , 2022

Page 1 of 3

## 0. General information

According to the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), GHS applies to pure substances and their dilute solutions and to mixtures. "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the system.

Also the European Regulation (ER) on Chemicals No. 1907/2006 (REACH) enforced on June 1<sup>st</sup>, 2007 does only require Material Safety Data Sheet (MSDS) for hazardous substances or preparations – not for articles.

All STRUCELL® products meet the definition of "Article" under the United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), the European Union (EU) Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) Standard, United States (US) Occupational Health and Safety Administration (OSHA) Hazard Communication Standard, Canadian Workplace Hazardous Materials Information System (WHMIS) Regulation and Australian Work Health and Safety (WHS) Regulation.

Therefore, under normal usage of the STRUCELL® products, no Material Safety Data Sheet (MSDS) is legally required.

To support our customers with additional data on safe handling and use instructions for our manufactured articles this *Safe Use Instruction Sheet* was created.

## 1.

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

STRUCELL®P Rigid foam

(P45, P60, P80, P100, P130, P200 , P250)

Core material in sandwich constructions

*Use of substance / preparation:* TianSheng Composite Materials Co. , Ltd

*Company identification:*

Tel +86 0519 85607930

Fax +86 0519 88859188

## 2. Hazards identification

STRUCELL® P does not constitute any risk to public health and environment if it is used as intended.

*Possible health issues:*

- Harmful to health due to inhaling vapour and dust that may be produced by sawing, grinding and thermoforming.
- Harmful to health due to ingesting dust that may be produced by grinding and sawing.

The foam is highly resistive: it could be loaded electrically in particular after machining.

## 3.

### Composition / Information on ingredients

Rigid polymeric foam on the basis of Polyvinylchloride modified by an interpenetrating polymer network with aromatic amides.

*Blowing agent:* Carbon dioxide (CO<sub>2</sub> / produced by the reaction of water with isocyanate components), N<sub>2</sub>.

*Further ingredients:* Residues of chemical blowing agent (including Diazene-1,2-dicarboxamide (C,C'-azodi (formamide)) (ADCA, CAS-Nr. 123-77-3) (< 0.5% w/w). Organic colour pigments. Stabilisers.

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<p><b>4. First aid measures</b></p> <p><i>Inhalation of processing fumes:</i> Move victim to fresh air; obtain medical attention if irritation persists.</p> <p><i>Inhalation of gases in case of fire:</i> Move victim to fresh air and obtain medical attention.</p> <p><i>Skin contact:</i> Wash with water.</p> <p><i>Eye contact:</i> Flush with water if irritation develops.</p> <p><i>Ingestion:</i> No special measures required. Seek medical attention if symptoms develop.</p>																									
<p><b>5. Fire-fighting measures</b></p> <p><i>Suitable extinguishing media:</i> Foam, water spray, extinguishing powder, carbon dioxide.</p> <p><i>Extinguishing media which must not be used:</i> Direct water jet.</p> <p><i>Hazardous combustion products:</i> Hydrogen chloride (HCl) and hydrogen cyanide (HCN), CO, CO<sub>2</sub>.</p> <p>Use respiratory protection independent of recirculated air.</p>																									
<p><b>6. Accidental release measures</b></p> <p>No special measures required.</p>																									
<p><b>7. Handling and storage</b></p> <p><i>Handling:</i> It must be ensured that there is good ventilation and suction on the processing machines and where dust development may occur.</p> <p><i>Storage:</i> Stow indoor. Stow away from immediate and dangerous sources of ignition. Possibility of electrostatic charges when stored in very dry areas.</p>																									
<p><b>8. Exposure control / personal protection</b></p> <p><i>General protection measures:</i></p> <p>Sufficient air circulation is required during processing. The exhaust air must not be recirculated. If the workstation cannot be sufficiently ventilated, it is imperative that respiratory protection (A2P3 filter) is worn.</p> <p><i>Workstation threshold values:</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Dust</th> <th>Source</th> <th>Value type</th> <th>Value (mg/m<sup>3</sup>)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td></td> <td>SUVA</td> <td>MAC values</td> <td>10</td> <td>Inhalable particles</td> </tr> </tbody> </table> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Gasses / Vapours</th> <th>Source</th> <th>Value type</th> <th>Value (mg/m<sup>3</sup>)</th> <th>Remarks</th> </tr> </thead> <tbody> <tr> <td>Tetramethylsuccinonitrile</td> <td>SUVA</td> <td>MAC values</td> <td>3</td> <td></td> </tr> <tr> <td>Methacrylnitrile</td> <td>SUVA</td> <td>MAC values</td> <td>3</td> <td></td> </tr> </tbody> </table> <p><i>Personal protection equipment</i></p> <p><i>Respiratory protection:</i> Effective breathing mask</p> <p><i>Hand protection:</i> Gloves</p> <p><i>Eye protection:</i> Goggles</p>	Dust	Source	Value type	Value (mg/m <sup>3</sup> )	Remarks		SUVA	MAC values	10	Inhalable particles	Gasses / Vapours	Source	Value type	Value (mg/m <sup>3</sup> )	Remarks	Tetramethylsuccinonitrile	SUVA	MAC values	3		Methacrylnitrile	SUVA	MAC values	3	
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<p><b>9. Physical and chemical properties</b></p> <p><i>Physical state / form:</i> Polymer foam sheet with visible cell structure.</p> <p><i>Colour:</i> Various, depending on density.</p> <p><i>Glass transition temperature:</i> 65 to 80 °C ISO 537</p> <p><i>Decomposition temperature:</i> &gt; 220 °C</p> <p><i>Flash ignition temperature:</i> &gt;380 °C ASTM D 1929</p> <p><i>Density:</i> 30 - 300 kg/m<sup>3</sup> ISO 845</p> <p><i>Solubility:</i> <i>Insoluble in:</i> Water, sea water, acids, alkalis, aliphatic hydrocarbons <i>Soluble in:</i> Aromatic hydrocarbons, Ketones, chlorinated hydrocarbons</p>																									

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<b>10.</b>	<p><b>Stability and reactivity</b></p> <p><i>General information:</i> Stable under normal conditions</p> <p><i>Conditions to avoid:</i> High temperatures (&gt; 180 °C)</p> <p><i>Materials to avoid:</i> Not applicable.</p> <hr/> <p><i>Flammability class S:</i> S4 (DIN 5510-2 ed 2009)</p> <p><i>Dangerous decomposition products:</i> Tetramethylsuccinonitrile (TMSN) Methacrylonitrile Isobutyronitrile Hydrogen chloride (HCl) Hydrogen cyanide (HCN) in small amounts Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>)</p>															
<b>11.</b>	<p><b>Toxicological information</b></p> <p><i>Toxicological tests:</i> No data available.</p> <p><i>Experience with man:</i></p> <p style="padding-left: 20px;"><i>Skin contact:</i> Grinding dust may cause irritation to people with sensitive skin.</p> <p style="padding-left: 20px;"><i>Eye contact:</i> Dust may cause irritation.</p> <p style="padding-left: 20px;"><i>Inhalation:</i> Dust may cause irritation of respiration tract. Dizziness, nausea and headaches may occur if processing (sawing, grinding or tempering) is performed without sufficient ventilation and respiratory protection over several hours in small, poorly ventilated areas.</p> <p style="padding-left: 20px;"><i>Ingestion:</i> No symptoms known.</p>															
<b>12.</b>	<p><b>Ecological information</b></p> <p><i>Ecotoxicity:</i> The total amount of all heavy metals is &lt;100 mg/kg [ppm].</p> <p><i>Mobility:</i> Not soluble in water, therefore effects on groundwater are unlikely.</p> <p><i>Persistence and degradability:</i> Biologically not degradable.</p>															
<b>13.</b>	<p><b>Disposal considerations</b></p> <p>Subject to legislation by local authorities, the product can be disposed of together with domestic refuse and industrial waste. Waste and residues can be incinerated in a plant equipped with flue gas washing, together with domestic waste.</p>															
<b>14.</b>	<p><b>Transport information</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">Railroad</td> <td style="width: 20%;">RID</td> <td style="width: 70%;">No restriction.</td> </tr> <tr> <td>Road</td> <td>ADR</td> <td>No restriction.</td> </tr> <tr> <td>Sea</td> <td>IMDG Code</td> <td>No restriction.</td> </tr> <tr> <td>Air</td> <td>ICAO-TI/IATA-DGR</td> <td>No restriction.</td> </tr> <tr> <td>UN-Classification</td> <td></td> <td>Not required.</td> </tr> </table>	Railroad	RID	No restriction.	Road	ADR	No restriction.	Sea	IMDG Code	No restriction.	Air	ICAO-TI/IATA-DGR	No restriction.	UN-Classification		Not required.
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<b>15.</b>	<p><b>Regulatory information</b></p> <p>STRUCELL® P rigid plastic foam does not require marking under the following directives or is not concerned by the following regulations:</p> <p>- Europe: Directive 67/548/EWG, ("DSD"), Directive 1999/45/EC, ("DPD"), Regulation (EC) No 1272/2008 ("CLP").</p>															
<b>16.</b>	<p><b>Other information</b></p> <p>This file is the security data table. The information given in this document is accurate to the best of our knowledge, but without any guarantee. It is given in good faith based on the current state of knowledge and experience. It is issued in respect of safety requirements and does not purpose to provide information on the quality of the material.</p>															