

# Safe Use Instruction Sheet (SUIS) for AIREX® TegraCore™

In line with Regulation (EC) No. 1907/2006 & GHS

Page 1 of 3

revised: July 24<sup>th</sup>, 2023  
GM--SUIS-006

## 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 AIREX® 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 AIREX® 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 product / article and of the company

AIREX® TegraCore™ Rigid foam  
(TC53 & peeled TMC53)

Use of product / article: Core material in sandwich constructions

Company identification: Airex AG  
5643 Sins, Switzerland  
Tel +41 41 789 66 00

## 2. Hazards identification

AIREX® TegraCore™ does not constitute any risk to public health and environment if it is used as intended.

Fine dust is produced while sawing, milling, grinding and sanding.

Irritant fumes may be produced while thermoforming.

## 3. Composition / Information on ingredients

Rigid polymeric foam on the basis of Polyphenylsulfone (PPSU), foamed using titanium dioxide.

## 4. First aid measures

*Inhalation of processing fumes:* Move victim to fresh air; obtain medical attention if irritation persists.

*Inhalation of gases in case of fire:* Move victim to fresh air and obtain medical attention.

*Skin contact:* Cool skin rapidly with cold water after contact with hot polymer; do not peel polymer from the skin and obtain medical attention if needed.

*Eye contact:* Flush with water; obtain medical attention if irritation persists.

*Ingestion:* No special measures required. Seek medical attention if symptoms develop. Avoid mouth contact with an unconscious person.

## 5. Fire-fighting measures

*Suitable extinguishing media:* Foam, water or water spray, extinguishing powder, carbon dioxide.

*Extinguishing media which must not be used:* Not known.

*Hazardous combustion products:* Combustible materials. Melting polymer may propagate fire and heating can release hazardous gases.

[www.3ACcorematerials.com](http://www.3ACcorematerials.com)

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Page 2 of 3

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GM--SUIS-005

<b>6. Accidental release measures</b>	Avoid dust formation.
<b>7. Handling and storage</b>	<p><i>Handling:</i> Take measures to prevent possibility of electrostatic charge. Ensure all equipment is electrically grounded before beginning transfer operations. To avoid thermal decomposition do not overheat.</p> <p><i>Storage:</i> Stow away from sources of ignition. Keep away from hot surfaces. Danger of electrostatic charges when stored in very dry areas. Avoid dust formation. Do not overheat to avoid thermal decomposition.</p>
<b>8. Exposure control / personal protection</b>	<p><i>Exposure limit values:</i> Not applicable.</p> <p><i>Exposure controls:</i> The use of gloves, protective goggles, dust masks, use of dust extraction equipment and long-sleeved clothing is recommended for sawing, milling, grinding and sanding. For thermoforming, the workplace should be continuously supplied with fresh air. Where necessary, a respiratory protection is recommended. When handling hot material, heat resistant gloves are recommended.</p>
<b>9. Physical and chemical properties</b>	<p><i>Physical state / form:</i> Solid foam sheet.</p> <p><i>Colour:</i> White.</p> <p><i>Softening point temperature:</i> approx. 220 °C ISO 6721-2</p> <p><i>Decomposition temperature</i> &gt; 430 °C</p> <p><i>Flash ignition temperature</i> n/a</p> <p><i>Density:</i> 53 kg/m<sup>3</sup> ISO 845</p> <p><i>Solubility:</i> Negligible water solubility.</p>
<b>10. Stability and reactivity</b>	<p><i>General information:</i> Stable under normal conditions.</p> <p><i>Conditions to avoid:</i> Heat, flames and sparks, avoid dust formation. The normal temperature for processing this resin exceeds the decomposition and/or ignition temperature of some other polymeric resins, such as polyacetal, polyvinyl chloride (PVC), polypropylene, etc. If PVC or any other resin with a decomposition temperature below 371 °C / 700 °F is moulded or handled in your equipment, these materials can rapidly decompose and/or react with this resin at the temperatures used to process this resin. Inadvertent contamination of this resin with these materials from the material handling system or other equipment can result in a rapid, possibly violent release of decomposition fumes, when the contaminated material is brought to processing temperature. To avoid, thoroughly clean moulding and other processing equipment prior to changeover and prevent cross contamination of material handling systems.</p> <p><i>Materials to avoid:</i> Not applicable.</p> <p><i>Dangerous decomposition products:</i> Sulphur oxides. Carbon monoxide (CO). Hydrocarbons.</p>
<b>11. Toxicological information</b>	<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> No data available.</p> <p style="padding-left: 20px;"><i>Eye contact:</i> No data available.</p> <p style="padding-left: 20px;"><i>Inhalation:</i> No data available.</p> <p style="padding-left: 20px;"><i>Ingestion:</i> No data available.</p>

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Page 3 of 3

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**12. Ecological information**

*Ecotoxicity:* No data available.  
*Mobility:* No data available.  
*Persistence and degradability:* No data available.

**13. Disposal considerations**

Subject to legislation by local authorities, the product can be disposed together with domestic refuse and industrial waste.

**14. Transport information**

Railroad	RID	No restriction.
Road	ADR	No restriction.
Sea	IMDG Code	No restriction.
Air	ICAO-TI/IATA-DGR	No restriction.

**15. Regulatory information**

AIREX® TegraCore™ rigid plastic foam does not require marking under the following directives or is not concerned by the following regulations:

- United States TSCA Inventory.
- Canadian Domestic Substances List (DSL).
- EU. European Registration, Evaluation, Authorisation and Registration of Chemical (REACH).
- Japan. CSCL – Inventory of Existing and new Chemical Substances.
- China. Inventory of Existing and new Chemical Substances in China (IESCS).

**16. Other information**

This Safe Use Instruction Sheet (SUIS) replaces the issue released on March 1<sup>st</sup>, 2023.

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.