

**Material Safety data sheet for AIREX® R82**

According to Regulation (EC) No. 1907/2006

Page 1 of 3

revised: 23.11.2010

<b>1. Identification of substance / preparation and of the company</b> AIREX® R82 Rigid foam (R82.60, R82.80, R82.110)  <i>Use of substance / preparation :</i> Core material in sandwich constructions  <i>Company identification:</i> Airex AG 5643 Sins, Switzerland Tel +41 41 789 66 00 Fax +41 41 789 66 60
<b>2. Hazards identification</b> AIREX® R82 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.
<b>3. Composition / Information on ingredients</b> Rigid polymeric foam on the basis of Polyetherimide (PEI), foamed using non ozone depleting blowing agents. <i>Further ingredients:</i> Residual solvents (< 1%) (non halogenated organic solvents).
<b>4. First aid measures</b> <i>Inhalation of processing fumes:</i> Move victim to fresh air; obtain medical attention if irritation persists. <i>Inhalation of gases in case of fire:</i> Move victim to fresh air and obtain medical attention. <i>Skin contact:</i> Wash with water. <i>Eye contact:</i> Flush with water if irritation develops. <i>Ingestion:</i> No special measures required. Seek medical attention if symptoms develop.
<b>5. Fire-fighting measures</b> <i>Suitable extinguishing media:</i> Foam, water spray, extinguishing powder, carbon dioxide. <i>Extinguishing media which must not be used:</i> Direct water jet. <i>Hazardous combustion products:</i> Carbon monoxide (CO).
<b>6. Accidental release measures</b> No special measures required.
<b>7. Handling and storage</b> <i>Handling:</i> No special measures required. <i>Storage:</i> Store away from immediate and dangerous sources of ignition. Danger of electrostatic charges when stored in very dry areas.
<b>8. Exposure control / personal protection</b> <i>Exposure limit values:</i> Not applicable. <i>Exposure controls:</i> The use of gloves, protective goggles and dust masks and also the use of dust extraction equipment 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.

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## Material Safety data sheet for AIREX® R82

According to Regulation (EC) No. 1907/2006

Page 2 of 3

revised: 23.11.2010

9.	<b>Physical and chemical properties</b>	
	<i>Physical state / form:</i>	Polymer foam sheet with visible cell structure.
	<i>Colour:</i>	White.
	<i>Glass transition temperature:</i>	approx. 190 °C      ISO 537
	<i>Decomposition temperature</i>	> 482 °C
	<i>Flash ignition temperature</i>	587 °C                  ASTM D 1929
	<i>Density:</i>	50 - 130 kg/m <sup>3</sup> ISO 845
	<i>Solubility: Insoluble in:</i>	Water, sea water, acids, alkalis, aliphatic hydrocarbons, alcohols, carbon tetrachloride, ether
	<i>Soluble in:</i>	Dichloromethane, trichloromethane, N-methyl-2-pyrrolidone, dimethyl sulfoxide, low molecular weight resins at elevated temperature.
10.	<b>Stability and reactivity</b>	
	<i>General information:</i>	Stable under normal conditions
	<i>Conditions to avoid:</i>	Not applicable
	<i>Materials to avoid:</i>	Not applicable
	<i>Dangerous decomposition products:</i>	Nitrous oxides (NO <sub>x</sub> ) Carbon monoxide (CO) Carbon dioxide (CO <sub>2</sub> )
11.	<b>Toxicological information</b>	
	<i>Toxicological tests:</i>	No data available.
	<i>Experience with man:</i>	
	<i>Skin contact:</i>	Does not contain any materials which are known to stimulate allergic reactions. Grinding dust may cause irritation to people with sensitive skin.
	<i>Eye contact:</i>	Dust may cause irritation.
	<i>Inhalation:</i>	Dust may cause irritation of respiration tract.
	<i>Ingestion:</i>	No symptoms known.
12.	<b>Ecological information</b>	
	<i>Ecotoxicity:</i>	The total amount of all heavy metals is <100 mg/kg [ppm].
	<i>Mobility:</i>	Not soluble in water, therefore effects on groundwater are unlikely.
	<i>Persistence and degradability:</i>	Biologically not degradable.
13.	<b>Disposal considerations</b>	
	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.	
14.	<b>Transport information</b>	
	Railroad      RID	No restriction.
	Road          ADR	No restriction.
	Sea          IMDG Code	No restriction.
	Air          ICAO-TI/IATA-DGR	No restriction.
	UN-Classification	Not required.
15.	<b>Regulatory information</b>	
	AIREX® R82 rigid plastic foam does not require marking under the dangerous substances and preparation directives 67/548/EEC and 1999/45/EC.	

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According to Regulation (EC) No. 1907/2006

Page 3 of 3

revised: 23.11.2010

**16. Other information**

This issue of the safety data sheet replaces the issue released on 27.05.2003.

The information given in this material safety data sheet 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.