

Safe Use Instruction Sheet (SUIS) for AIREX® R82

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

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revised: June 16th, 2021
GM--SUIS-004

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 1st, 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 substance / preparation and of the company

AIREX® R82 Rigid foam
(R82.60, R82.80, R82.110)

Use of substance / preparation : Core material in sandwich constructions

Company identification: Airex AG
5643 Sins, Switzerland
Tel +41 41 789 66 00
Fax +41 41 789 66 60

2. Hazards identification

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.

3. Composition / Information on ingredients

Rigid polymeric foam on the basis of Polyetherimide (PEI), foamed using non ozone depleting blowing agents.

Further ingredients: Residual solvents (< 1%) (non halogenated organic solvents).

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: Wash with water.

Eye contact: Flush with water if irritation develops.

Ingestion: No special measures required. Seek medical attention if symptoms develop.

5. Fire-fighting measures

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

Extinguishing media which must not be used: Direct water jet.

Hazardous combustion products: Carbon monoxide (CO).

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6. Accidental release measures	No special measures required.
7. Handling and storage	<p><i>Handling:</i> No special measures required.</p> <p><i>Storage:</i> Stow away from immediate and dangerous sources of ignition. Danger of electrostatic charges when stored in very dry areas.</p>
8. Exposure control / personal protection	<p><i>Exposure limit values:</i> Not applicable.</p> <p><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.</p>
9. Physical and chemical properties	<p><i>Physical state / form:</i> Polymer foam sheet with visible cell structure.</p> <p><i>Colour:</i> White.</p> <p><i>Glass transition temperature:</i> approx. 190 °C ISO 537</p> <p><i>Decomposition temperature</i> > 482 °C</p> <p><i>Flash ignition temperature</i> 587 °C ASTM D 1929</p> <p><i>Density:</i> 50 - 130 kg/m³ ISO 845</p> <p><i>Solubility: Insoluble in:</i> Water, sea water, acids, alkalis, aliphatic hydrocarbons, alcohols, carbon tetrachloride, ether</p> <p><i>Soluble in:</i> Dichloromethane, trichloromethane, N-methyl-2-pyrrolidone, dimethyl sulfoxide, low molecular weight resins at elevated temperature.</p>
10. Stability and reactivity	<p><i>General information:</i> Stable under normal conditions</p> <p><i>Conditions to avoid:</i> Not applicable</p> <p><i>Materials to avoid:</i> Not applicable</p> <p><i>Dangerous decomposition products:</i> Nitrous oxides (NO_x) Carbon monoxide (CO) Carbon dioxide (CO₂)</p>
11. Toxicological information	<p><i>Toxicological tests:</i> No data available.</p> <p><i>Experience with man:</i></p> <p><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.</p> <p><i>Eye contact:</i> Dust may cause irritation.</p> <p><i>Inhalation:</i> Dust may cause irritation of respiration tract.</p> <p><i>Ingestion:</i> No symptoms known.</p>
12. Ecological information	<p><i>Ecotoxicity:</i> The total amount of all heavy metals is <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>

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13. Disposal considerations

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. Transport information

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. Regulatory information

AIREX® R82 rigid plastic foam does not require marking under the following directives or is not concerned by the following regulations:

- Europe: Directive 67/548/EWG, ("DSD"), Directive 1999/45/EC, ("DPD"), Regulation (EC) No 1272/2008 ("CLP").
- US: OSHA .29 CFR 1910.1200 and .49 CFR 171.8 (EPA 40 CFR 117) spill, leak and disposal regulations of the US Department of Transportation.
- Canada: WHMIS and TDG.

16. Other information

This Safe Use Instruction Sheet (SUIS) replaces the issue released on May 26th, 2021.

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.