Material Safety data sheet for AIREX® C71

1. Identification of substance / preparation and of the company

AIREX® C71 Rigid foam

(C71.55, C71.75)

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® C71 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.

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_2 / produced by the reaction of water with isocyanate components).

Further ingredients: Residues of chemical blowing agent. Organic colour pigments. Stabilisers.

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: Hydrogen chloride (HCl) and hydrogen cyanide (HCN).

Use respiratory protection independent of recirculated air.

6. Accidental release measures

No special measures required.

7. Handling and storage

Handling: It must be ensured that there is good ventilation and suction on the processing machines and where dust development may occur.

Storage: Stow away from immediate and dangerous sources of ignition. Danger of electrostatic charges when stored in very dry areas.

8. Exposure control / personal protection

General protection measures

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.

Workstation threshold values

Dust	Source	Value type	Value (mg/m^3)	Remarks
	SUVA	MAC values	10	Inhalable particles

Gasses / Vapours	Source	Value type	Value (mg/m^3)	Remarks
Tetramethylsuccinonitrile	SUVA	MAC values	3	
Methacrylnitrile	SUVA	MAC values	3	

Personal protection equipment

Respiratory protection: Effective breathing mask

Hand protection: Gloves

Eye protection: Goggles

9. Physical and chemical properties

Physical state / form: Polymer foam sheet with visible cell structure.

Colour: Various, depending on density.

Glass transition temperature: 65 to 80 °C ISO 537

Decomposition temperature: > 220 °C

Flash ignition temperature: 380 °C ASTM D 1929

Density: 50 - 100 kg/m^3 ISO 845

Solubility: *Insoluble in:* Water, sea water, acids, alkalis, aliphatic hydrocarbons

Soluble in: Aromatic hydrocarbons, Ketones, chlorinated hydrocarbons

10. Stability and reactivity

General information: Stable under normal conditions

Conditions to avoid: High temperatures (> 180 °C)

Materials to avoid: Not applicable.

Dangerous decomposition products: Tetramethylsuccinonitrile (TMSN)
Methacrylnitrile
Isobutyronitrile
Hydrogen chloride (HCl)
Hydrogen cyanide (HCN) in small amounts
Carbon dioxide (CO_2)
Carbon monoxide (CO)

Material Safety data sheet for AIREX® C71

11. Toxicological information

Toxicological tests:	No data available.
Experience with man:	
Skin contact:	Grinding dust may cause irritation to people with sensitive skin.
Eye contact:	Dust may cause irritation.
Inhalation:	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.
Ingestion:	No symptoms known.

12. Ecological information

Ecotoxicity:	The total amount of all heavy metals is < 100 mg/kg [ppm].
Mobility:	Not soluble in water, therefore effects on groundwater are unlikely.
Persistence and degradability:	Biologically not degradable.

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® C71 rigid plastic foam does not require marking under the dangerous substances and preparation directives 67/548/EWG and 1999/45/EG.

16. Other information

This issue of the safety data sheet replaces the issue released on 16.09.2009.

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.