

Material Safety data sheet for AIREX[®] C70

According to Regulation (EC) No. 1907/2006 Page 1 of 3 revised: 23.11.2010 1. Identification of substance / preparation and of the company AIREX[®] C70 Rigid foam (C70.40, C70.48, C70.55, C70.75, C70.90, C70.130, C70.160, C70.200, C70.250) 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[®] C70 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 (CO₂ / 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 (HCI) and hydrogen cyanide (HCN). Use respiratory protection independent of recirculated air. 6. Accidental release measures No special measures required. 7. Handling and storage It must be ensured that there is good ventilation and suction on the processing machines Handling: and where dust development may occur. Stow away from immediate and dangerous sources of ignition. Danger of electrostatic Storage:

3A COMPOSITES CORE MATERIALS www.corematerials.3AComposites.com



Europe / Middle East / Africa: Airex AG Industrie Nord 26 5643 Sins, Switzerland Tel +41 41 789 66 60 Fax +41 41 789 66 60 corematerials @ 3AComposites.com North America / South America: Baltek Inc. 108 Fairway Court Northvale, NJ 07647, USA Tel +1 201 767 14 00 Fax +1 201 387 66 31 corematerials.americas@3AComposites.com

charges when stored in very dry areas.

Asia / Australia / New Zealand: 3A Composites (China) Ltd. Shangfeng Road 933, Building 6, Pudong 201201 Shanghai, China Tel +86 21 585 86 006 Fax +86 21 338 272 98 corematerials.asia@3AComposites.com



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General protection measures: Sufficient air circulation is required during processing. The exhaust air must not be recirculated. If the workstation cannot be sufficiently ventilated, is imperative that respiratory protection (A2P3 filter) is work. Workstation threshold values: Dust Source Value type Value (mg/m ¹) Remarks Image: Source Value type Value (mg/m ¹) Remarks Image: Source Value type Value (mg/m ¹) Remarks Image: Source Value type Value (mg/m ¹) Remarks Image: Source Value (type Value (mg/m ¹) Remarks Image: Source Value (type Value (mg/m ¹) Remarks Image: Source Value type Value (mg/m ¹) Remarks Image: Source Value type Value (mg/m ¹) Remarks Image: Source Source Value type Value (mg/m ¹) Remarks Personal protection: Effective breathing mask Hand protection: Globy source Source Source Value type Value calues Source Value type Value type Physical state / form: Polytical state / form: Source S	8.	Exposure control / personal protection							
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Personal protection equipment 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: 320 °C ASTM D 1929 Density: 30 - 350 kg/m ³ ISO 845 Soluble in: Aromatic hydrocarbons Soluble in: Soluble in: Aromatic hydrocarbons, Ketones, chlorinated hydrocarbons Soluble in: Aromatic hydrocarbons, Ketones, chlorinated hydrocarbons Conditions to avoid: High temperatures (> 180 °C) Materials to avoid: Not applicable. Dargerous decomposition Tetramethylsuccinonitrile (TMSN) meducts: Tetramethylsuccinonitrile (HCN) in small amounts carbon monxide (CO) Carbon monxide (CO) Carbon monxide (CO) Carbon monxide (MethacryInitrile		SUVA MAC values 3					
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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.	11.	Toxicological information							
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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.		Skin contact: Grinding dust may cause irritation to people with sensitive skin.							
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.		Eye contact:	Dust may cause irritation.						
Ingestion: No symptoms known.		Inhalation:		Dust may cau occur if proce ventilation an	use irritation of respir essing (sawing, grind id respiratory protect	ation tract. Dizziness ing or tempering) is p ion over several hour	, nausea and headaches may erformed without sufficient s in small, poorly ventilated areas.		
		Ingestion:		No symptoms	s known.				





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12.	Ecologic	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.			
	Persister	nce 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 Road ADR Sea IMDG Code Air ICAO-TI/IATA-DGR UN-Classification		No restriction.			
			No restriction. No restriction. No restriction.			
			Not required.			
15.	Regulatory information					
	AIREX [®] C70 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	e of the safety data shee	t 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 guarant is given in good faith based on the current state of knowledge and experience. It is issued in respect of safety requireme and does not purpose to provide information on the quality of the material.					



MATERIAL SAFETY DATA SHEET

PRODUCTS: <u>AIREX®</u> PXc PXw.420) Blocks, Plain She	& PXw Plastic Foam (P et, Rigid Sheet, Contour	Xc.145, PXc.245, PXc.32 rable and GPS Sheet	20, PXc.385, PXw.320, PXw.385,			
	Alcan B 108 Northvale,	altek Corporation Fairway Court , New Jersey 07647				
2	24-HOUR EMERGENCY	TELEPHONE NO. 201-	-983-7064			
T 29 CF	HIS MATERIAL SAFET R 1910.1200 (THE HAZ	Y DATA SHEET COMPL ZARD COMMUNICATION	IES WITH N STANDARD)			
	SECTION I - PR	ODUCT IDENTIFICATIO	N			
PRODUCT NAME: AIREX® PX FOAM GENERAL OR GENERIC I.D.: Fiber Reinforced Cellular Plastic Foam Core Material D.O.T. HAZARD CLASSIFICATION: ORM-C/No Label Required NFPA (National Fire Protection Association) and HMIS/NAPIM (National Association of Printing Ink Manufacturers) CLASS: HEALTH (NFPA/HMIS): 1 FLAMMABILITY(NFPA/HMIS): 1 REACTIVITY (NFPA/HMIS): 0 PERSONAL PROTECTION (HMIS): 1 (Where 4 – Extreme: 3 – Severe: 2 – Moderate: 1 – Slight: 0 – None)						
	SECTION II - HAZ	ZARDOUS COMPONEN	TS			
Ingredient C.A.S. N	lo. <u>% (By Weight)</u>	OSHA PEL	ACGIH TLV			
PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS PER 29 CFR 1910.1200						
However, cutting milling, drilling, routing or otherwise fabricating this material may produce the following: Particles- N/A TWA=15 mg/m ³ N/A Not Regulated						
Fiberglass Dust 65997-17-3 N/A TWA=15 mg/m ³ TWA=10 mg/m ³ 5 mg/m ³ (respiratory) (total dust 1 fiber/cc proposed)						
This product primarily consists of high molecular weight polymers and is manufactured without CFC's or other ozone-depleting substances.						
NOTE: ONLY THOSE INGREDIENTS THAT HAVE BEEN DETERMINED TO BE HAZARDOUS AS DEFINED IN 29 CFR 1910.1200 ARE LISTED IN THIS SECTION. AN INGREDIENT MARKED WITH AN ASTERISK (*) IS ALSO LISTED IN 29 CFR 1910.1200 (D) #4 AS A KNOWN OR SUSPECTED CARCINOGEN. TO OUR KNOWLEDGE, THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS SUBJECT TO SECTION 313 OF 40 CFR 372.						
	SECTION I	II - PHYSICAL DATA				
PROPERTY	REFINEMENT	MEASUREMENT				
BOILING POINT VAPOR PRESSURE VAPOR DENSITY SPECIFIC GRAVITY PERCENT VOLATILE	For Component (100% For Component (100% Air = 1 BY WEIGHT (%)	5) N/A 5) Less than 1m Solid, N/A 0.100 - 0.480 @ 77 Deg F (Less Than 19	am Hg @ 68 Deg F (20 Deg C) (ASTM D 1622) (25 Deg C) %			

PRODUCTS:AIREX® PXc & PXw Plastic Foam (PXc.145, PXc.245, PXc.320, PXc.385, PXw.320, PXw.385,
PXw.420) Blocks, Plain Sheet, Rigid Sheet, Contourable and GPS SheetPage 2

SECTION III - PHYSICAL DATA. CONTINUED					
<u>PROPERTY</u> <u>RE</u>	FINEMENT	MEASUREMENT			
EVAPORATION RATE (ETHER SOLUBILITY IN WATER BY WE PHYSICAL SOFTENING: APPEARANCE, STATE, FORM	= 1) IGHT (%)	Solid, N/A Less Than 0.01% None (thermosetting plastic) Foam slabs or sheets, optionally with machined slits, optionally with attached glass fiber scrim			
SI	ECTION IV - FIRE & EXF	PLOSION DATA			
FLASH-POINT (ASTM D1929):	Greater Than 600 Deg	F (316 Deg C) (ASTM D1929)			
AUTOIGNITION:	Greater than 600 Deg F (316 Deg C), Oxygen Index Greater than 30% (ASTM D2863)				
FLAMMABILITY LIMITS IN AIR:	LOWER: Not Determir UPPER: Not Determir	ed, flammable only by direct flame ed, flammable only by direct flame			
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, trace amounts of Hydroger Cyanide, halogen acids and Nitrogen oxides may be formed if burning.					
EXTINGUISHING MEDIA: X WATER X WATER FOG CO ₂ DRY CHEMICAL X OTHER: water froth					
SPECIAL FIRE FIGHTING PROCEDURES: Full-face, self-contained breathing apparatus and impervious protective clothing should be worn in a sustained fire.					
UNUSUAL FIRE AND EXPLOSION HAZARDS: Dust can present an explosion risk, however a dust collection system necessary for a suitable work environment is more than adequat to eliminate this risk.					
SECTION V - HEALTH DATA					
PERMISSABLE EXPOSURE LEVEL: Not established for product. See Section VIII for proper protective wear, Section II for Hazardous Components.					
NATURE OF HAZARD: dust may become airborne during machining operations.					
PRIMARY ROUTES OF ENTRY: inhalation					
SIGNS AND SYMPTOMS OF EXPOSURE: shortness of breath, dizziness					

EFFECTS OF CHRONIC EXPOSURE:

No adverse chronic health effects are known for this product, but direct inhalation of dust and smoke should be avoided. No enhanced allergic responses are known to occur by handling this product, however heavy work gloves are recommended to protect from exposed glass fibers. No medical conditions are known which might be aggravated by exposure to this product under normal handling.

EMERGENCY TREATMENT / FIRST AID: remove the affected to fresh air, consult physician if shortness of breath continues.

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	SE	CTION V - HEALTH DATA, CONTINUED				
EFFECTS OF OV	EREXPOSURE:	for dust				
Eyes	Eyes Solid or dust can cause irritation, redness, tearing, blurry vision or corneal injury due to mechanical action.					
Skin BreathingExc	Irritation from mec essive inhalation of	hanical abrasion dust from product can cause asphyxiation due to coating of lung				
tiss Swallowing	ues. If ingested, produc	ct may cause temporary irritation to the gastromintestinal tract.				
GENERAL FIRST	AID:					
If in eyes	Flush with large an	mounts of water, lifting upper and lower lids occasionally. Seek medical				
If on skin	Wash area with so	ap and cold water when convenient to do so. Wash hands before eating or				
If breathed	If asphyxia is appa	arent, remove individual to fresh air. If breathing is difficult, administer				
If swallowed	oxygen. If breathin If large quantities l	ng has stopped, give artificial respiration and seek prompt medical attention. have been ingested, seek prompt medical attention.				
		SECTION VI - REACTIVITY DATA				
HAZARDOUS PO	LYMERIZATION:	Will not occur.				
STABILITY:		Product is stable at typical use temperatures. Product is not reactive.				
INCOMPATIBILIT	Y (AVOID CONTAC	<u>CT WITH):</u> Avoid contact with strong oxidizing materials, and long term exposure to temperatures in excess of 392 Deg. F (200 Deg. C)				
CONDITIONS TO	AVOID:	Exposure to open flame or excessive heat. Sustained burning may produce significant levels of noxious or irritating fumes.				
HAZARDOUS DECOMPOSITION PRODUCTS: Exposure to open flame may liberate Carbon Monoxide, Carbon Dioxide, trace amounts of Hydrogen Cyanide, halogen acids ar Nitrogen oxides.						
	SECTION V	II - SPILL, LEAK AND DISPOSAL PROCEDURES				
IN CASE MATERI	AL IS RELEASED (<u>DR SPILLED:</u> broom-up or vacuum-up.				
WASTE DISPOSA all local, state	AL METHOD: dispose and federal regulation	sal as an industrial waste in a landfill is recommended when consistent with tions.				
D.O.T. (49 CFR 1	71.8)/E.P.A. (40 CF	R 117) SPILL REPORTING INFORMATION:				
HAZARDOUS SU	BSTANCE:	None Does not apply				
CONCENTRATIO	NS OF HAZARDOL	JS SUBSTANCE: None				
REPORTABLE QUANTITY OF PRODUCT: Does not apply.						

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SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED

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<u>RESPIRATORY PROTECTION</u>: Where use results in the generation of dust from product (machining, sawing or sanding), provide sufficient mechanical (general and/or local exhaust) ventilation or vacuum-assisted dust collection to prevent excessive concentrations of airborne dust from developing (see "Unusual Fire And Explosion Hazards" in Section IV). If such engineering controls prove inadequate, protection with a dust/mist respirator having a NIOSH/MSMA approval of TC-21C-132 is recommended.

HANDS: Leather or cotton gloves should be worn to prevent skin contact and irritation.

EYES/FACE: Safety glasses with sideshields are recommended to keep dust out of eyes.

OTHER PROTECTIVE EQUIPMENT: Normal loose-fitting work clothing fully covering arms and legs.

SECTION IX – REGULATORY INFORMATION

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US FEDERAL REGULATIONS:

General Product Information:

SARA 311/312: This product is not classified as hazardous under SARA 311/312.

Component Analysis

None of this product's components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

STATE REGULATIONS:

General Product Information

Other state regulations may apply. Check individual state requirements.

Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS #	CA	FL	MA	MN	NJ	PA
Continuous filament glass fibers	65997-17-3	No	No	No	Yes	No	No

SECTION X - SPECIAL PRECAUTIONS OR OTHER COMMENTS

<u>PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING</u>: Product is combustible. Avoid contact with direct flame. Avoid storing in areas where temperatures may exceed 392 Deg. F (200 Deg. C). During machining or high speed abrading, product may collect a high potential static charge in dry weather. To avoid explosion due to Electrostatic Discharge (ESD), do not perform such machining operations in the presence of flammable vapors.

OTHER PRECAUTIONS: Abrasive dust may irritate skin, and if airborne, may cause explosion if ignited.

<u>COMMENTS:</u> The information accumulated herein is believed to be accurate but is not warranted to be, whether advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

PREPARED BY:	K.A. Feichtinger
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