

Material Safety Data Sheet for FOREX[®]

according to Regulation (EC) No. 1907/2006

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revised: 31.08.2017

SECTION 1 Identification of substance / preparation and of the company

Trade name:	FOREX[®] – Expanded rigid PVC sheets (FOREX[®] classic, FOREX[®] color, FOREX[®] print, FOREX[®] lite)
Use:	Semi finished sheets for visual communication and selected construction and industrial application
Manufacturer:	Airex AG 5643 Sins, Switzerland Tel +41 41 789 66 00 (only serviced during office hours) Fax +41 41 789 66 60 E-Mail: corematerials@3AComposites.com

SECTION 2 Hazards identification

If used as intended, FOREX – expanded rigid plastic sheets do not constitute any risk to public health and the environment.

Possible health issues:	Harmful to health when inhaling dust and vapours during unpacking, sawing, grinding and thermoforming. Harmful to health when ingesting dust generated during sawing and grinding.
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SECTION 3 Composition / Information on ingredients

Rigid plastic sheets made of expanded PVC, also containing process aids, pigments and inorganic fire retardants. Produced by expansion (foaming) using chemical blowing agents.

Blowing gaz:	Nitrogen.
Further ingredients:	Residues of chemical blowing agents. Organic color pigments. Stabilisers.

SECTION 4 First aid measures

Inhalation of processing fumes:	Move the person concerned to fresh air; seek medical assistance if breathing difficulties occur.
Inhalation of smoke from fire:	Move the person concerned to fresh air and call doctor.
Skin contact:	Wash with fresh water.
Eye contact:	Wash with fresh water if irritation develops.
Ingestion:	No special measures required. Seek medical assistance if symptoms develop.

SECTION 5 Fire-fighting measures

Suitable extinguishing media:	Water spray, foam.
Extinguishing media which must not be used:	Direct water jet.
Hazardous combustion products:	Hydrogen chloride (HCl).
Breathing equipment with independent air supply is required for fire fighting.	

SECTION 6 Accidental release measures

No special measures required.
Remove by mechanical means.



3A Composites GmbH
Alusingenplatz 1
78224 Singen, Germany
display.eu@3AComposites.com
www.display.3AComposites.com

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SECTION 7 Handling and storage

Handling: Ensure good ventilation and dust extraction on processing machines and at other places where dust may develop.

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

SECTION 8 Exposure controls / Personal protection

General protection measures: Sufficient air circulation is required during processing.

Occupational exposure limits

	Source	Type of limit	Value (mg/m ³)	Remarks
Dust	SUVA	Max. expos. at workplace	10	inhalable particles

Personal protection equipment: Respiratory protection: Efficient breathing mask.
 Skin (hand) protection: Gloves.
 Eye protection: Safety goggles.

SECTION 9 Physical and chemical properties

Physical state: Rigid foamed plastic sheets.

Colour: white, black, various colours.

Softening temperature: > 80 °C

Thermal decomposition: > 180 °C

Ignition temperature: > 450 °C

Apparent density: 430 – 700 kg/m³

Solubility: Insoluble in: Water, sea water, acids and bases, aliphatic hydrocarbons.
 Soluble in: Aromatic hydrocarbons, ketones, chlorinated hydrocarbons.

SECTION 10 Stability and reactivity

General information: Stable in normal conditions.

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

Materials to avoid: Not applicable.

Hazardous thermal decomposition products: Hydrochloric acid (HCl)
 Carbon dioxide (CO₂)
 Carbon monoxide (CO)



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SECTION 11 Toxicological information

Toxicological tests:	No data available.
Experiences from practical use:	
Skin contact:	Grinding dust may cause irritation to people with sensitive skin.
Eye contact:	Dust may cause irritation.
Inhalation:	Dust may cause irritation of respiratory tract. Dizziness, nausea and headaches may occur if processing (sawing or grinding work) is done without sufficient ventilation and respiratory protection during several hours in small, poorly ventilated areas.
Ingestion:	No symptoms known.

SECTION 12 Ecological information

Ecotoxicity:	The total amount of heavy metals is < 100 mg/kg [ppm].
Mobility:	Insoluble in water, ground water contamination is unlikely.
Persistence and degradability:	Biologically not degradable.

SECTION 13 Disposal considerations

FOREX sheets and waste thereof can be disposed of together with household waste and similar industrial refuse. Disposal by incineration must only be undertaken in facilities which are equipped with a flue gas cleansing unit.

SECTION 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.

SECTION 15 Regulatory information

FOREX[®] sheets do not require special markings under the dangerous substances and preparation directives 67/548/EWG and 1999/45/EG

SECTION 16 Other information

This issue of the safety data sheet replaces the issue released in 2016. This latest issue has been amended by the additional product FOREX[®] lite.

FOREX[®] sheets are articles. For this reason, there is no legal obligation to compile a SDS (MSDS) in accordance with Article 31 of REACH for FOREX[®] sheets. However, this document provides relevant information on FOREX[®] sheets which may be useful in order to identify and implement appropriate risk management procedures.

The information given in this material safety data sheet is accurate to the best of our current knowledge and experiences, but without any guarantee. The safety data sheet describes FOREX sheets with regard to safety requirements. The information given does not represent a guarantee of the properties and quality of the material.



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