

Material Safety Data Sheet for SMART-X®

according to Regulation (EC) No. 1907/2006 Page 1 of 3 revised: 22.06.2015

1. Identification of substance / preparation and of the company

Trade name: SMART-X® – Lightweight foam sheets

Use: Semi finished sheets (boards) for visual communication

and event marketing

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

2. Hazards identification

If used as intended, SMART-X - lightweight foam 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 and routing.

Harmful to health when ingesting dust generated during sawing

and routing.

3. Composition / Information on ingredients

Lightweight foam sheets made of expanded (foamed) Polystyrene. Surface layers made of solid

Polystyrene. Also containing processing aids and pigments. Produced by expansion (foaming) using physical blowing agents.

Blowing gas: Carbon dioxide (CO₂), Hydrocarbons. Further ingredients: Inorganic color pigments, UV stabilisers.

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.

5. Fire-fighting measures

Suitable extinguishing media: Water spray, foam. Extinguishing media Direct water jet.

which must not be used:

Hazardous combustion products: Not applicable.

Breathing equipment with independent air supply is required for fire fighting.

6. Accidental release measures

No special measures required. Remove by mechanical means.





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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.

8. Exposure controls / Personal protection

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

Occupational exposure limits

Source Type of limit Value (mg/m3)

Remarks

SUVA Max. expos. at workplace 10 inhalable particles

Personal protection equipment: Respiratory protection: Efficient breathing mask.

Skin (hand) protection: Gloves.

Eye protection: Safety goggles.

9. Physical and chemical properties

Physical state: Rigid foamed plastic sheets.

Colour: white or various colours.

Softening temperature: $> 100 \, \text{°C}$

Apparent density: 200 kg/m³

Solubility: Insoluble in: Water, sea water.

Soluble in: all solvents.

10. Stability and reactivity

General information: Stable in normal conditions.

Conditions to avoid: Not applicable.

Materials to avoid: Solvents, hydro carbons.

Hazardous thermal Possible formation of styrenic monomer,

decomposition products: Aldehydes, organic acids

Carbon monoxide (CO)



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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.

12. Ecological information

Eco toxicity: Not toxic to organisms in the water.

Mobility: Insoluble in water, ground water contamination is unlikely.

Persistence and degradability: Biologically not degradable.

13. Disposal considerations

SMART-X 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.

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

SMART-X sheets do not require special markings 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 30.07. 2012 (changed entries relate to the blowing gases, the additives and the ignition temperature).

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 SMART-X sheets with regard to safety requirements. The information given does not represent a guarantee of the properties and quality of the material.