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STIFERITE PRODUCT SAFETY INFORMATION

Regulation (EC) no. 1907/2006 of the European Parliament and of the Council, and subsequent updates, provides for the drafting of the Safety Data Sheets (SDS) for substances and mixtures/preparations classified as dangerous.
Stiferite insulation boards are considered articles under the Regulation, this Product Safety Information Sheet has been prepared to reflect the primary SDS requirements as set out in Annex II to Regulation (EC) No 1907/2006 (REACH), and amended by Commission Regulation (EU) No 2015/830 as they might reasonably apply to articles.
The sole purpose of this information sheet is to provide additional information.

1. IDENTIFICATION OF THE PRODUCTS AND COMPANY

The voluntary safety data sheet refers to the following **STIFERITE** products**:**

- **AI6 Edilizia**
- **BB**
- **CLASS B**
- **CLASS BH**
- **CLASS S**
- **CLASS SH**
- **CLASS SK**
- **FIRE B**
- **GT**
- **GT3**
- **GT4**
- **GT5**
- **GTE**
- **ISOVENTILATO**
- **Pendenzato CLASS B**
- **Pendenzato CLASS S**
- **Pendenzato GT**
- **RP**

Relevant identified uses: Thermal insulation products for buildings

Details of the Supplier of the Product Safety Information Sheet:

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2. HAZARDS IDENTIFICATION

When used as intended, this product is classified as non-hazardous and there are no known toxic influences.
When the material is cut, long-term exposure to the dust may lead to irritation of the skin, eyes and lungs. Eye andrespiratory protection is always recommended. During large/industrial scale cutting and/or transformation of the material, local regulations regarding occupational exposure limits (OEL) of volatile substances and (fine) dust must be monitored. Mechanical ventilation and dust extraction may be necessary.

The product is not classified as ecotoxic (HP14 ecotoxicity test reports available).
Based on the available data, the product does not contain any candidate substances $\geq$ 0.1 $\%_w$.

3. COMPOSITION

Rigid polyurethane–polyisocyanurate (PIR) foam coverd on both main sides by facers
It contains flame retardants and blowing agents.

Pendenzato CLASS B – Pendenzato CLASS S – Pendenzato GT: composite panel made by Rigid polyurethane–polyisocyanurate foam covered on one sode by EPS insulation panel. It contains flame retardants.

Alternative facers:

40 μm aluminium: Ai4 – Av4

60 μm aluminium: A6B – Ai6 – Av6

80 μm aluminium: AAB – AAL – AB8 – AC8 – AHB – AHL – AHH – Ai8 – AL8 – ALC – ALL – Av8 – BA8 – LB3 – LB4

200 μm aluminium: AEB – AHG – Ai2 – ALE

Multilayer based on aluminium: AIG – GT – GTC – GTD – GTE – GTM – GTR

Mineral saturated fiber glass: Av4 – Av6 – Av8 – CLASS B – CLASS BH – CLASS S – CLASS SH – CLASS SK – FIRE B – FIRE B Duo – ISOVENTILATO – RVH

Bituminous saturated fiber glass with PP layer: CLASS B – CLASS BH

Bituminous paper: BB

Bituminous kraft paper: IP – P3

Paper: Cl – CR

Bituminous saturated fiber glass with PP layer: The glass fiber shape is filament. The bituminous layer is a mixture of distilled bitumen, polyolefin and elastomeric polymers.
It does not contain cardboard tar and asbestos.

4. FIRST AID MEASURES

Eye Contact:
• Immediately flush eyes with plenty of water for at least 15 minutes.
• Do not rub or scratch eyes. Rubbing or scratching may cause mechanical damage.
• If irritation persists get medical attention..
Skin Contact::
• For skin contact, wash immediately with soap and cold water.
• Do not wash with warm water because this will open up the pores of the skin, which will cause further penetration of the fibres. Use a washcloth to help remove fibers.
• To avoid further irritation, do not rub or scratch affected areas.
• Remove polluted clothing.
• If irritation persists, get medical attention.
Inhalation:
• Immediately move the affected person to fresh air.
• If symptoms persist, get medical attention.

5. **FIRE-FIGHTING MEASURES**

The product is not inflammable but combustible. Extinguishing media: water spray, dry chemical, foam or carbon dioxide. Hazardous product of combustion: compounds of carbon, hydrogen and oxygen, including carbon monoxide and smoke. The exact composition will depend on the conditions of combustion.

6. ACCIDENTAL RELEASE MEASURES

- Avoid contact with skin and eyes.
- Place material in a container.
- Vacuum the outside of the container to remove fibers.
- After vacuuming, clean with water.

7. **Handling and storage**

Use single use gloves.
Keep contamination of workplaces as low as possible (e.g. to careful handling of products and waste). Store in original packing in a location free from any ignition hazard such as open flames, cutting and welding torches, high surface temperature electric heaters and other forms of direct radiant heat.
Keep product protected from the elements. Ensure stability of stack and provide adequate aisle space for access between stacks.
Keep in original packaging until ready for installation. All products should be stored inside a building or protected against weather influences and raised off the floor. Ensure stability of stacks and follow guidance instructions on packaging.

8. **EXPOSIRE CONTROLS / PERSONAL PROTECTION**

Inhalation: Dust is non-hazardous. As with all cutting procedures it is recommended that a disposable dust mask be worn. Masks of class FFP2 or better are recommended. Where dust is generated through mechanical cutting in confined spaces, it is recommended that extraction be used. It is recommended when non-mechanical cutting is carried out that the product is cut with a trimming knife to minimise the generation of dust.

The continuous filament glass fibers are not breathable. Some mechanical processes can however generate dust or fibers in suspension.

Composite panel mades by bituminous layer (GT3 – GT4 – GT5): The product does not give rise to releases.
The operations of waterproofing surfaces by spreading a bitumen-polymer membrane by flame involve a modest dispersion of potentially dangerous substances in the air, including, Polycyclic Aromatic Hydrocarbons (PAHs), In the case of laying in confined spaces, without adequate ventilation, levels of environmental concentrations of dangerous substances could be reached such as to materialize a potential risk from inhalation of toxic and harmful substances (see point 3) towards exposed personnel. Hence the need to operate by reclaiming the environment through forced ventilation in order to obtain a sufficient number of air changes such as to maintain suitable air quality and the environmental concentrations of the products emitted by the operation below the respective exposure limit values (T.L.V. of the ACGIH).

Hands: It is recommended that gloves be worn when handling the product. Materials combined with an aluminium sheet vapour barrier must be handled with gloves capable of protecting against cuts.

Eyes: As with all cutting procedures it is recommended that eye protection be worn. When installing a product with reflective foil facings in very bright or sunny weather it is advisable to wear UV protective sunglasses or goggles.

Skin: Non-sensitising. It is recommended to wear gloves when handling the product. When installing a product with reflective foil facings in very bright or sunny weather it is advisable to consider skin protection from UV.

Other: The products are non-load bearing. The smooth facing used on some products can be slippery underfoot when wet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Rigid polyurethane–polyisocyanurate foam covered on both main sides

smell:	Not Applicable
ph value:	Not Applicable
boiling point:	bituminous layer >470° C
melting point:	PU foam doesn't melt; bituminous layer > 100° C
flash point:	bituminous layer >230° C
explosion properties:	Not Applicable
vapour pressure:	Not Applicable
solubility in water:	insoluble
solubility in organic solvent:	insoluble
solubility in n-octanol/water:	Not Applicable
calorific power:	70 MJ/m^2

10. STABILITY AND REACTIVITY

Stable at ambient temperatures and pressures.

11. TOXICOLOGICAL INFORMATION

Polyurethane foam is considered inert.

The glass fiber:
Acute Toxicity**:** not applicable
Local effects: Dusts and fibers can cause irritation of the eyes and skin. Irritation disappears when the exposure ceases. Mechanical irritation is not considered a health hazard according to the European regulation 1272/2008 / EC.
Continuous filament glass fibers are not classified as irritants according to European regulation 1272/2008 / EC.
Inhalation can cause coughing, sneezing or irritation of the nose and throat. Exposure to strong concentrations may result in breathing difficulties, congestion and a sense of oppression.
Long term effect: Continuous filament glass fibers are not breathable as defined by the World Health Organization (WHO).
Continuous filament glass fibers are not carcinogenic.

Bituminous layer (CLASS B – CLASS BH): The bituminous layer during the installation operations for heating can cause the emission of thermocraking products in the form of gases and vapours which may involve:
eye irritation with possible sensitization (conjunctivitis)
skin irritations, with possible sensitizations (dermatitis)

Composite panel mades by bituminous layer (GT3 – GT4 – GT5): The product is based on bituminous membranes and thermoplastic polymers and does not contain coal tar and asbestos. As it is, it does not present any kind of danger. In the molten state, the compound or bitumen removed can cause burns.
In case of improper use, without the use of personal protective equipment, symptoms of irritation to the eyes, respiratory tract and skin, sensitization effects with possible dermatitis and conjunctivitis may occur.
For workers assigned to use the product, a medical check-up is required in accordance with Legislative Decree 25/2002.
The waterproofing operations of surfaces by flame-burning bituminous sheathing involve a modest dispersion of polycyclic aromatic hydrocarbons (PAHs) in the air. The environmental concentration data of PAHs are on average up to 3 orders of magnitude lower than the occupational exposure limits established or recommended by associations and agencies for the protection of health in the workplace. The environmental levels measured by associations and agencies for the protection of health in the workplace. (Bertazzi P.A., Foà V., Fustinoni S. "Esposizione professionale a idrocarburi policiclici aromatici durante la stesura bituminosa", Milan University).

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12. ECOLOGICAL INFORMATION

Not biodegradable

13. DISPOSAL CONSIDERATION

According the local regulations.

14. TRANSPORT INFORMATION

This product is no regulated and classified in a manner that requires special handling or precautions in shipment.

15. REGULATORY INFORMATION

Not regulated by Regulation (CE) 1907/2006 and next promulgations.

16. OTHER INFORMATION

The STIFERITE products are compliant with all requirements indicated at chapter 2.5.7 DM the 23rd of June 2022 - “Criteri ambientali minimi (CAM) per l’affidamento di servizi di progettazione e lavori per la nuova costruzione, ristrutturazione e manutenzione di edifici pubblici”.
All requirements are declared in Environmental Product Declaration and in ReMade in Italy certification on Stiferite web site. In EPD, the requirements are in pag. 3 - “Additional Declaration”.

STIFERITE panels:

- CE mark and Declaration of performance (DoP) in accordance with EN 13165 – “Thermal insulation products for buildings. Factory made rigid polyurethane foam (PU) products. Specification” or in accordance with EN 13950 – “Gypsum board thermal/acoustic insulation composite panels - Definitions, requirements and test methods”.
- For Stiferite composite panels and for kits use the Declaration of performance (DoP) of thermal insulation product.
- Any substances of Very High Concern-SVHC in concentration of more than 0,1 $\%_w$ are not used in production. Any specific authorizations for use are reserved provided for by the same Regulation for the substances included in Annex XIV and specifications restrictions set out in Annex XVII of the Regulation.
- Flame retardants used in production (belonging to the Organophosphorus class) are not banned by any national or European regulation
- Any blowing agent with Ozone depletion potential >0 is not used in production
- Catalysts lead-based are not used in production.
- Pendenzato CLASS B – Pendenzato CLASS S – Pendenzato GTare made by blowing agent less than 6%$_w$.
- According to the raw materials declarations of suppliers the minimum amount of recycled raw materials based on the insulation board (PU foam and facers) weight is 3 $\%_w$ and the minimum amount of recycled raw materials based on the PU insulation foam weight is 4 $\%_w$.
- According to the raw materials declarations of suppliers the minimum amount of recycled raw materials based on the EPS insulation board is 10 $\%_w$ and the minimum amount of recycled, recovered and by-product raw materials based on the EPS insulation board is 15 $\%_w$.

The information contained here is offered in good faith and is based on our current knowledge.
We thereby withhold the right to update and amend this document as necessary.
The information should not be taken as guarantee of specific performance and users should make their own assessment and make all applicable personnel aware accordingly.
All chemical products can affect persons with a sensitive or allergic disposition, persons with such sensitivity should seek medical advice before handling the product.
The wearing of appropriate safety equipment is strongly recommended as a precaution and the product should only be used in its design application strictly in accordance with the directions given.
Please consult STIFERITE technical office. **Free number 0039 800840012**