

Safety data sheet Standard 91/155/CEE

1. Product and Company Identification

Product data: Thermal Slab (GRISOL y ITI)

Product characterization: Concret and extruded polystyrene (XPS)

Manufacturer: Grazimac Materiais de Construção, Lda

Largo da Feira 2425-617 Monte Redondo, Leiria, Portugal Tel: +351 244 685 905

Info department: qualidade@grazimac.pt

Emergency contact: INEM, CIAV - Centro de Informação Anti-Venenos

Tel: +351 808 250 143 (24 horas por dia)

2. Composition/Information on Ingredients

Chemical composition: The product is solidified concrete and polystyrene foam. For the formation of polystyrene foam is used GPPS with suitable physical blowing agents and small amounts of additives such as coloring and improved flame retardant.

None of the additives present a danger to health or for to the environment, according to the criteria of Regulation (EC) 1272/2008.

3. Hazards Identification

Product classification: No classification according to the criteria of Regulation (CE) 1272/2008 (CLP).

Label elements: None according previous classification.

Potential Health Effects:

Inhalation: Prolonged exposure dust and filings from the mechanical handling of the product may cause temporary irritation of the respiratory system, if the applicable exposure limits are exceeded. In case there is smoke from fire smell, this can cause irritation in the airways.

Skin: No effects.

Eyes: The prolonged inhalation of dust and filings from the mechanical handling of product exposure can cause temporary irritation (itching) or redness in the eyes.

Ingestion: It is unlikely that cases of ingestion of the product occur in normal use. However, if this happens (filings), no serious effects expected.

4. First Aid Measures

General advice:

Inhalation: If irritation occurs, take the affected person to fresh air. Provide water for drinking and blow your nose to remove dust and filings. If irritation persists, seek medical advice.

Eye contact: Do not rub eyes. Rinse with water. Seek medical advice if irritation persists.

Ingestion: Rinse your mouth with water to remove the filings. Drink plenty of water to avoid possible gastrointestinal irritation.

5. Fire Fight Measures

Medios de extinción: All kinds of extinguishing media are suitable - Water, foam, dry powder, carbon dioxide. No objection to the use of any means of extinction.

Products of combustion: Releasing carbon dioxide and carbon monoxide, water vapor, possibly fluorinated nitrogen (mostly recently produced boards), residues of other gases.

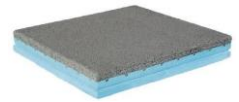
Protective Equipment and Precautions for Firefighters: Note normal fire fighting procedures. When the product is burned in an improper or inadequately ventilated space, use a respirator with air supply or self contained breathing apparatus.

6. Accidental Release Measures

Personal protective measures: None.

Environment protection measures: Pick up large pieces and collect filings, if any.

Methods for cleaning up: Dispose as non hazardous waste.



7. Handling and Storage

Handling: The transport of the thermal slabs must always be in their original packaging, being required careful handling, in order to prevent accidental damage. The download should be performed by stacker, crane or other mechanical means. In windy conditions should be considered additional security concerns driven by the dimensions of the slab, particularly in regard to local traffic with slopes or significant dimensions wholes.

Storage: Grisol slabs are supplied in pallets and packed with extensible plastic film, the slabs must be maintained in their original packing. Above these pallets they should not be placed other pallets or any other material. The slabs should not be packaged in weather conditions for long periods of time. Keep away from flames or heat sources.

8. Exposure Controls and Personal Protection

Exposure limit value: Follow all applicable exposure limits dust / filings / particles. When possible, general ventilation should be used for dilution or local exhaust ventilation if necessary to keep exposures below these limits. Should disposal systems / collecting dust and swarf used during cutting.

Limit value: According to regulations 91/322 EEC and 96/94 EC, the recommended exposure limits are 5 mg/m³ for respirable particulate matter and 10 mg/m³ for dust and particulates internal unregulated.

Professional exposure controls: Wear gloves and safety boots when handled manually. Processing machines, cutting, must be in a ventilated.

Eyes protection: Use eye protectors in places with high dust or product filings.

Respiratory protection: If dust or filings produced exceed the exposure limits, wear proper protective equipment such as 3M 9310 or equivalent disposable type masks.

9. Physical and Chemical Properties

Appearance: Extruded polystyrene board attached to an upper concrete layer of the selected color.

Odor: Odorless

Melting point: Above 180 ° C

Boiling point: n / a

Flash Point: n / a

Flash: Slow Burn (XPS)

Auto ignition temperature: n / a

Exposure Limits (Upper / Lower): n / a

Vapor Pressure: n / a

Density: 28-38 kg / m³ (XPS) and 1638 to 2046 kg / m³ (Concrete)

Solubility in water: Insoluble

Viscosity: n / a

Further information: See data sheet for each product.

(n / a: not applicable)

10. Stability and Reactivity

Stability: Stable under recommended storage and utilization.

Conditions to avoid: Exposure to fire.

Materials to avoid: Organic solvents, strong acids, sodium hypochlorite.

Hazardous decomposition or byproducts: Combustion products, see Section 5.

11. Toxicological Information

Acute toxicity: None.

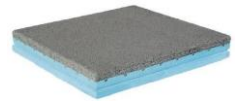
Chronic toxicity: No known effects under normal use conditions.

12. Ecological Information

Ecotoxicity: The product is not expected to be hazardous to the environment, is not expected to cause damage to animals and plants or fish or other aquatic species.

Degradation: the product may suffer a slight gradual degradation of the surface due to photolytic processes during prolonged sun exposure.

Other adverse effects: It should not be expect any negative environmental effect as in the production of XPS are used physical blowing agents third generation who have no toxic action and have a potential ozone destruction (ODP = 0) of zero and a global warming potential Global (GWP) little or minimal.



13. Disposal considerations

Dispose via landfill according to local regulations.

14. Transport Information

The product is classified as not dangerous for transport (ADR, RID, UN, IATA / ICAO).

15. Regulatory Information

The product is classified as not dangerous according to EC guidelines requires no special labeling.

16. Other Information

The information presented is accurate and complete to our legal knowledge.

However, there is no express or implied warranties regarding the recommendations or suggestions made because the conditions of the users are beyond our control, will always be their responsibility to take all necessary measures to comply with the requirements security, established in the regulations and national law.

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