



USE AND SAFETY INSTRUCTIONS SHEET

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The European Regulation on Chemicals Nr. 1907/2006 (REACH) enforced on June 1st 2007 requires Material Safety Data Sheet (MSDS) only for hazardous substances and mixtures / preparations. Mineral wool products are articles under REACH and therefore, MSDS is not legally required. Nevertheless, Termolan S.A. decides to provide its customers with the appropriate information for assuring safe handling and use of mineral wool through this USE AND SAFETY INSTRUCTIONS SHEET.

1. IDENTIFICATION OF THE PRODUCT AND COMPANY:**Product:**

Stone wool "MW TERMOLAN" - Mineral wool, stone wool fibres with random orientation with alkaline oxide and alkali earth oxide ($\text{Na}_2\text{O} + \text{K}_2\text{O} + \text{CaO} + \text{MgO} + \text{BaO}$) content greater than 18 % by weight."

Recommended use / application:

Thermal, acoustical and protection against fire insulation

Producer Company:

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2. HAZARDS IDENTIFICATION:

There is no hazard or risk statement associated with this product.

3. COMPOSITION / INFORMATION ON THE INGREDIENTS:

Product	Nº C.A.S.	Content - % in Weight	Classification and labeling Directive 67/548/CE
Stone Fibre MW TERMOLAN		96 a 99,5	Not classified
Binder		< 4	Not classified
Soluble Oil		< 0,2	Not classified

- **Facing materials and adhesives:** Not applicable (products without facing)

Glass tissue, kraft paper, aluminium, wired net, asphaltic bitumen (faced products)



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4. FIRST AIDS:

Inhalation: Remove from exposure zone;

Skin contact: Wash skin with water and soap. If irritation persistence occurs see a doctor to take advice;

Eyes contact: Rinse abundantly with water for at least 15 minutes;

Ingestion: Drink plenty of water if accidentally ingestion.

In case of symptom persistence, seek medical professional advice.

5. FIRE FIGHTING INSTRUCTIONS:

Incombustible products. However, packaging or facing materials may be combustible.

In case of fire use water spray or foams for products without facing. Use CO₂ and dry powder extinguishers for faced products.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: In case of presence of high concentrations of dust, use the same protective equipment mentioned in section 8.

Environmental precautions: No remarks, inert substance.

Cleaning up methods: Vacuum cleaner or dampen down with water spray prior to brushing up.

7. HANDLING AND STORAGE:

Handling: No specific measure. In case of cutting, preferably use flat blades.

Storage: No remarks. Suitable to the generality of the storage conditions products.

8. EXPOSURE CONTROL / PERSONAL PROTECTION:

Exposure limit value (ELV):	None at European level
Exposure Limit Values for Portugal	✓ Total particles : 10 mg/m ³ ; ✓ Breathing particles: 3 mg/m ³ .
Exposure controls	No specific requirements
Personal protection equipment:	
✓ Respiratory protection	When working in unventilated area or during operations which can generate dust emission, wear disposable face mask type FFP1, according standard EN 149.
✓ Hands protection	Wear gloves according standard EN 388, to avoid itching.
✓ Eyes protection	Wear goggles when working overhead. Eyes protection equipment according to EN 166
✓ Skin protection	Wear appropriate clothes.
✓ Hygiene measures	Rinse in cold water before washing with soap.

The following pictograms and instructions are printed on product packaging:

“The mechanical effect of fibres in contact with skin may cause temporary itching.”



Ventilate working area if possible



waste should be disposed of according to local regulations



Cover exposed skin when working unventilated area wear disposable face mask



Clean area using vacuum equipment



Wear goggles when working overhead



Rinse in cold water before washing

9. PHYSICAL AND CHEMICAL PROPERTIES:

Physical state / aspect:	Solid, amorphous.
Presentation form;	Slabs, rolls, pipe sections, loose wool.
Colour:	Cream.
Odour:	Inodorous.
pH:	Not applicable; irrelevant.
Boiling point:	Not applicable; irrelevant.
Flash point:	Not applicable; irrelevant.
Flammability:	Not applicable; irrelevant.
Explosive properties:	Not applicable; irrelevant.
Density:	20 to 300 Kg/m ³ .
Water solubility:	Inert and insoluble.
Gases solubility:	Not applicable; irrelevant.
Orientation of fibres:	Random.

10. STABILITY AND REACTIVITY:

No remarks, stable and inert substance. The stability of its original kept up to 800 °C. The binder withstands up to \cong 200°C.

11. TOXICOLOGICAL INFORMATION:

The mechanical effect of fibres in contact with skin may cause temporary itching.

The product is in consonance with the **Regulation (CE) n. o 1272/2008** (repeals the Directive 97/69/EG) and according with one of the four conditions in the **Note Q**.

The classification as carcinogen need not apply if can be shown that this fibre sample fulfils the condition: ***“a short-term biopersistence test by intratracheal instillation has shown that the fibres longer than 20 μ m have a weighted half-life less than 40 days”***.



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12. ECOLOGICAL INFORMATION:

Stone wool is a natural, inorganic and mineral product and its ecological information is described in the Environmental Product Declaration (EPD).

13. DISPOSAL CONSIDERATIONS:

Waste disposal of product and packaging should be in accordance with regulations in force in country/European of use.

14. TRANSPORT INFORMATION:

Given the product properties, there are no precautions to be noted and no specific regulations.

15. REGULATORY INFORMATION:

"MW TERMOLAN" stone wool fibres in accordance with Regulation (CE) 1272/2008 (repealing Directive 97/69/EG) are not classified as hazardous and are exonerated from the carcinogenic classification because they meet one of the criteria of exoneration.

REGULATION (CE) 1272/2008 (repealing Directive 97/69/EG):

"Note Q:

The classification as a carcinogen need not apply if it can be shown that the substance fulfils one of the following conditions:

- *a short-term biopersistence test by inhalation has shown that the fibres longer than 20 µm have a weighted half-life less than 10 days, or*
- *a short-term biopersistence test by intratracheal instillation has shown that the fibres longer than 20 µm have a weighted half-life less than 40 days, or*
- *an appropriate intra-peritoneal test has shown no evidence of excess of carcinogenicity, or*
- *absence of relevant pathogenicity or neoplastic changes in a suitable long-term inhalation test.*

Note R:

The classification as a carcinogen need not apply to fibres with a length weighted geometric mean diameter less two standard errors greater than 6 µm."



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16. OTHER INFORMATIONS:

It's guaranteed to meet the exoneration criterion being implemented a system of regular monitoring and assessing the chemical composition, performed by independent laboratory accredited for this purpose.

- ✚ Use and Safety Instructions Sheet issued on 2021/02/17;
- ✚ ITEM Fraunhofer – Institut Toxikologie und Experimentelle Medizin - Study nº 02G11020;
- ✚ ITEM Fraunhofer – Institut Toxikologie und Experimentelle Medizin – Certificate of 2012/05/25;
- ✚ Déclaration de Conformité – Règlement (CE) n. o 1272/2008 (abrogeant la Directive 97/69/CE);
- ✚ LNEG/IGM – Instituto Geológico e Mineiro – Anexo do Boletim de Análise no. 44/FRX/2000.

Please be advised that the information contained in this safe use instructions sheet is related only to the intended use of the product.