1- IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

1.1 Product identifier

Product name : **THERMAWOOL stone wool insulation**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Stone wool products for building construction applications for thermal insulation, acoustic insulation and fire protection. The product should be used in accordance with technical guidance published by Thermawool.

1.3 Details of the supplier of the safety data sheet

Supplier : TERRA BUILDING MATERIALS LTD.
3 Bedlam Mews, London SE11 6DF
Tel : +44(0)20 3961 3000
E-mail : info@thermawool.co.uk
Website : www.thermawool.co.uk

1.4 Emergency telephone number

THERMAWOOL Customer care (08.45 am - 5.30 pm)
Tel : +44(0)20 3961 3000
E-mail : info@thermawool.co.uk

2- HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

THERMAWOOL stone wool (Mineral wool) is not classified as dangerous according to Regulation (EC) NO 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP/GHS).

2.2 Label elements

There are no hazardous classifications used in relation to THERMAWOOL fibres and no labelling required according to Regulation (EC) NO 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP/GHS).

2.3 Other hazards

The mechanical effect of fibres in contact with skin may cause temporarily itching. Use of high speed cutting tools can generate dust. The binder will be slowly broken down when if product is exposed to constant heat over 200□C. Read section 8 for further information.

3- COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Material	EC - ID Number	Conctent in weight %	Classification packaging and labelling EU regulation (CE) 1272/2008
Stonewool *	926-099-9	95-100 %	Not classified **
Thermosetting polymer binder		0-5 %	Not classified
Polymer mineral oil		0.5 (max.) %	Not classified

Comments

* Man made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide content greater than 18% by weight and fulfilling one of the Nota Q conditions of regulation 1272/2008.

** Stone wool fibres are not carcinogenic according to the Nota Q of regulation 1272/2008.

3.2 Facing Materials

THERMAWOOL may be supplied faced with various building materials such as, aluminium foil and silicon based water repellent.

4- FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation : Remove from exposure. Rinse the throat and clear dust from airways.

Skin : If itching occurs due to mechanical effects of the fibres, remove contaminated clothing and wash skin gently with cold water without rubbing and wash with mild soap.

Eye : Remove contact lenses if applicable. Rinse abundantly with water for at least 15 minutes.

Ingestion : Drink plenty of water if accidentally ingested.

4.2 Most important symptoms and effects, both acute and delayed

The mechanical effect of coarse fibres in contact with skin, eyes and throat may cause temporary itching.

4.3 Indication of any immediate medical attention and special treatment needed

None required. If any adverse reaction or discomfort continues from any of the above exposures, seek professional medical advice.

5- FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media : Water, foam, carbon dioxide (CO2)

Unsuitable extinguishing media : None known

5.2 Special hazards arising from the substance or mixture

None special. Use normal body and respiratory protection for fire.

5.3 Advice for firefighters

THERMAWOOL stone wool is non-combustible, some packaging materials or facings may be combustible.

6- ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

In case of presence of high concentrations of dust, use the same personal protective equipment as mentioned in section 8.

6.2 Environmental precautions

None

6.3 Methods and materials for containment and cleaning up

Vacuum cleaner or dampen with water spray prior to sweeping up.

6.4 Reference to other sections

For personal protection equipment, see section 8. For waste disposal, see section 13.

7- HANDLING AND STORAGE

7.1 Precautions for sale handling

No specific measures. Preferably use a sharp knife for cutting. Ventilate the working area for effective dust extraction when using a power tool. Use safety goggles when working overhead. See section 8.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures : No special measures necessary

Suitable storage conditions : Products should be kept dry, if possible in original packaging to be protected against humidity and mechanical damage.

Incompatible materials : None

Packaging material : Products are typically packed in polyethylene film on wooden pallets.

8- EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Workplace exposure limit (WELL) 5mg/m³ gravimetric measure (total inhalable dust) and 2 fibres/ml airbone fibre limit, 8-hour time weighted averages. HSE guidance assumes that the gravimetric measure would be reached before the fibre measure. (Ref. HSE EH40).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use a sharp knife instead of a saw to cut.

8.2.2 Indivudual protection measures, such as personal protective equipment

Eye protection : Eye protection to EN 166 is advised.

Hand protection : Use gloves confirming to EN 388 to avoid itching.

Skin protection : Cover exposed skin.

Respiratory protection : When working in unventilated areas or during operations which can generate emission of (various) dusts, wearing a disposable face mask in accordance with EN 149 FFP1 is recommended.

At high temperatures not usually found in building construction (>200 °C), the product binder will slowly decompose and trace gases will be released. When high temperature appliances are first put into service, gases should be vented to control exposure to fumes or appropriate respirators used.

The following text and pictograms are printed on packaging :

Avoid exposure to skin, wear disposable face mask when working in unventilated area

Clean the working area with vacuum equipment

Waste disposal should be done according to local regulations

When exposed to skin, rinse with cold water before rubbing your hands

Working area should be ventilated if possible

Safety goggles should be worn when working overhead

9- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Appearance : Solid, fibrous
- Colour : Grey, yellow
- Form : Slabs
- Odour : Odourless
- pH : Not relevant. Solid
- Fibre distribution : Random
- Relative density : Depends on the product. (typ. between 50 and 140 kg/m³)
- Upper/ lower flammability or explosive limits : Not relevant. Non-combustible (ref. UK and Ireland Building Regulations)
- Melting point : > 1000°C
- Flash point : Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
- Evaporation rate : Not relevant. Solid.
- Flammability : Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
- Solubility(ies) : Generally chemically inert and insoluble in water.
- Viscosity : Not relevant. Solid.
- Decomposition temperature : When heated to approx. 200°C for the first time, release of binder decomposition products occurs.
- Vapour pressure : Not relevant. Solid.
- Vapour density : Not relevant. Solid.
- Partition coefficient n-octanol/water : Not relevant. Insoluble in water.
- Autoignition temprature : Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)
- Oxidising Properties : Not relevant. Non- oxidising.
- Explosive properties : Not relevant. Non-combustible. (ref. UK and Ireland Building Regulations)

9.2 Other Information

No further chemical or physical properties to report.

10- STABILITY AND REACTIVITY

10.1 Reactivity

Not reactive

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Not reactive

10.4 Conditions to avoid

None specified

10.5 Incompatible materials

None specified

10.6 Hazardous decomposition products

Thermal decomposition of binder starts above 200□C releasing odours gases. The duration of and amount of release is dependent upon the thickness of insulation, binder content and the temperature applied. During first heating, good ventilation or appropriate personal protection equipment are required. See section 8.2.2.

11- TOXICOLOGY INFORMATION

11.1 Information on toxicological effects

a) Acute toxicity

No acute toxicity

b) Irritation

In case of coarser fibres, there can be mechanical effects on skin, upper respiratory system (mucous membranes) and eyes that can cause temporary, self-fading effects (e.g. itching). No chemical effects ensue.

c) Corrosivity

No corrosivity

d) Sensitisation

No sensitisation

e) Repeated dose toxicity

No repeated dose toxicity

f) Carcinogenicity

None. Owing to its high bio-solubility, the fibre used in THERMAWOOL stone wool insulation materials is assessed as free from suspicion of possible carcinogenic effects in accordance with regulation (EC) No 1272/2008 (ref. Nota Q). In October 2001, the International Agency for Research on Cancer (IARC) classified stone wool insulation as Group 3 (not classifiable as to its carcinogenicity in humans) is not suspected of causing cancer in humans.

g) Mutagenicity

No mutagenicity

h) Toxicity for reproduction

No toxicity for reproduction

12- ECOLOGICAL INFORMATION

12.1 Toxicity

Non-toxic

12.2 Persistence and degradability

None

12.3 Bioaccumulative potential

None

12.4 Mobility in soil

None

12.5 Results of PBT and vPvB assessment

No assessment required

12.6 Other adverse effects

No flame retardants are added

13- DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

THERMAWOOL material is recycable. Please visit our website www.thermawool.co.uk for more information. THERMAWOOL insulation is classified as non-hazardous waste. THERMAWOOL insulation waste is covered by the non-hazardous entry “17 06 04 insulation materials other than those mentioned 17 06 01 and 17 06 03” in the European Waste Catalogue, established by EC Decision 2000/532/EC (hazardous waste). Under landfill regulations THERMAWOOL insulation waste is categorised as “waste accepted at landfills for non-hazardous waste” in accordance with EC Decision 2003/33/EC (landfill acceptance criteria).

14- TRANSPORT INFORMATION

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Enviromental hazards

Not applicable

14.6 Special precautions for user

None specified

15- REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

In accordance with the CLP, GHS and REACH regulations is that there are no hazardous classifications associated with THERMAWOOL fibres. This includes physical, health and envorimental aspect.

15.2 Chemical safety assesment

No assesment required

16- OTHER INFORMATION

This safety data sheet has been prepared in accordance with Annex II to Regulation (EC) No 1907/2006 (REACH), as amended by Commission Regulation (EU) No 2015/380.

All stone wool insulation products supplied by Terra Building Materials Ltd. are made of fibres exonerated from classification as a carcinogen in accordance with Regulation (EC) No. 1272/2008 (ref. Nota Q).

This data sheet is not a substitute for a workplace assessment. The information provided is correct from the date of publication but is subject to change. The information provided is not a product specification and no warranty is offered or implied.

The information relates only to the specific material when used as it has been designed. No guarantee can be given if materials are used with products that are not specified in our documents, unless specified in the text.

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The information provided in this document is believed to be accurate at the time of preperation or prepared from the sources believed to be reliable. It is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and regulations applicable to the safe handling and use of the product.

THERMAWOOL

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