

1. PRODUCT AND COMPANY IDENTIFICATION

Generic product name: Stone wool insulating material

Recommended use: Thermal and/or acoustical insulation of wall or roof/ fire protection

Trade name : ROCKWOOL Steinwolle

Producer: DEUTSCHE ROCKWOOL
Mineralwoll GmbH & Co. OHG
Rockwool Straße 37 - 41
45966 Gladbeck
Postfach 2 07
45952 Gladbeck
Tel.: 0 20 43/4 08-2 80
Fax: 0 20 43/4 08-4 78
Email: guido.nykiel@rockwool.com

2. HAZARDS IDENTIFICATION

Most important hazards : There is no hazard statement associated with this product.

Specific hazards : not applicable

3. COMPOSITION/INFORMATION on INGREDIENTS

Substance	C.A.S. number ⁽⁴⁾	Amount weight (%)	Classification and labelling (Regulation (CE) n°1272/2008)	Classification and labelling (European directive 67/548/EEC) ⁽³⁾	Index number in accordance with Appendix I 67/548/EEC
Stone wool ⁽¹⁾	28 7922-11-6 HT stone wool fibres	90 – 100%	Not classified ⁽²⁾	Not classified	650-016-00-2
Duroplastic synthetic resin		0 – 10%	Not classified	Not classified	
Mineral oil		0 - 0.5%	Not classified	Not classified	

- (1): Man-made vitreous (silicate) fibres with random orientation with alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content greater than 18 % by weight and fulfilling one of the Note Q conditions
- (2): Non classified H351 “suspected of causing cancer”. Stone wool fibres are not classified carcinogenic according to the Note Q of the Directive 97/69/EEC and the regulation No 1272/2008 (page 335 of the JOCE L353 of December 31, 2008)
- (3): Where substances are classified in accordance with regulation (EC) No 1272/2008 during the period from its entry into force until 1 December 2010 that classification may be added in the safety data sheet together with the classification in accordance with Directive 67/548/EEC. From 1 December 2010 until 1 June 2015 the safety data sheets for substances shall contain the classification according to both Directive 67/548/EEC and Regulation (EC) No 1272/2008 (art. 57 of Regulation (CE) 1272/2008, Official journal L353, p. 27)
- (4): C.A.S.: Chemical Abstract Service

Possible facing materials: glass mat or polyester mat or aluminium or kraft paper

¹ The European Regulation (ER) on Chemicals N° 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 Deutsche Rockwool Mineralwoll GmbH & Co. OHG decide to provide their customers with the appropriate information for assuring safe handling and use of mineral wool through this *Safe Use Instructions Sheet*.

4. FIRST AID MEASURES

After eye contact: Particles penetrating the eyes are to be treated like other foreign bodies, do not rub, rinse thoroughly with water, consult a doctor - if necessary.

5. FIRE FIGHTING MEASURES

Appropriate means for extinguishing: Water and other usual extinguishing agents.

6. ACCIDENTAL RELEASE MEASURES

Not applicable

7. HANDLING and STORAGE

7.1 Notes on safe handling:

The following general principles of industrial hygiene are to be observed.

- (1) In the case of coarser fibres or fibre fragments there can be physical effects on the eyes, the upper respiratory tract and the skin. To avoid such temporary, reversible manifestations the general principles of industrial hygiene should be observed, as also in the handling of non-fibrous dusts.
- (2) When handling products which can release fibres or fibre dust, contamination of the workplaces should be kept as low as possible. For example, this can be achieved by
 - the use of low-dust processing procedures and equipment
 - the use of pre-prepared products
 - careful handling of the products and pieces of waste,
 - regular cleaning of the workplacesor
 - ventilation measures at the workplaces
- (3) Other general principles of industrial hygiene are:
 - to wear loose-fitting, closed work clothing and, if necessary, gloves,
 - to use a suitable protective cream or lotion for sensitive skin,
 - to wear safety goggles in the event of severe dust development or for overhead working. The use of half/quarter masks with P1 filter or of FFP1 particle-filtering half-masks is recommended. Also in other circumstances, if the employee so wishes, half/quarter masks with P1 filter or FFP1 particle-filtering half-masks should be made available,
 - to wash off dust after terminating work.

7.2 Notes on fire and explosion protection:

Product is incombustible.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Limit values:

The general dust limit value of 3 mg/m³ (alveolar dust) is applicable, inhalable fraction of 10 mg/m³.

8.2 Personal protective equipment and hygiene measures:

See 7.1

9. PHYSICAL and CHEMICAL PROPERTIES

9.1 Appearance

9.1.1 Form: solid body

9.1.2 Colour: grey-green

9.1.3 Smell: odourless

9.2 Relevant safety data

9.2.1 Melting point/melting range:

Melting temperature of the stone wool fibres > 1000 °C

The limiting temperatures applicable for use are dependent on structure and composition of the products and must be taken from the respectively applicable "Technical Data Sheets".

9.2.2 Flash-point:)

9.2.3 Inflammability:)

9.2.4 Ignition temperature:) incombustible

DIN 4102

9.2.5 Spontaneous ignition:)

9.2.6 Fire-encouraging properties:)

9.2.7 Vapour pressure: at 25 °C below 10-3 mbar.

9.2.8 Bulk density: 20 - 200 kg/m³

9.2.9 Water-solubility: at 25 °C below 10-3 g/l.

9.2.10 Solvent content: contains no solvent

9.2.11 Dynamic viscosity: at 25 °C above 1010 Pa•s.

10. STABILITY and CHEMICAL ACTIVITY

10.1 Conditions to be avoided: none

10.2 Dangerous reactions: none

10.3 Dangerous decomposition products: none

10.4 Other information: On first heating to above 250 °C smoldering gases with acrid smell are released. According to the test methods of DIN 53 436 the carbonisation gases are regarded as toxicologically harmless.

11. TOXICOLOGICAL INFORMATION

Carcinogenic effect:

Classification not applicable for mineral wools in this product; in accordance with the Directive 97/69/EC and European Regulation 1272/2008, Note Q.

Owing to their high biosolubility, the fibre types of ROCKWOOL stone wool insulation materials (HT stone wool fibres) are also assessed as free from suspicion of carcinogenic effects in accordance with TRGS 905, section 2.3. The half-life time after intratracheal instillation (artificial application of fibres into the lungs of rats by injection through the trachea) is less than 40 days for WHO fibres ($L > 5 \mu\text{m}$, $D < 3 \mu\text{m}$, $L:D > 3$) as well as for fibres with a length $> 20 \mu\text{m}$.

12. ECOLOGICAL INFORMATION

This product is not expected to cause harm to animals or plants during normal conditions of use.

13. DISPOSAL CONSIDERATIONS

- 13.1 Recommendation: Disposal on land fill sites for debris and rubbish.
- 13.2 Waste code No.: 17 06 04 'Insulating materials other than those mentioned in 17 06 01 and 17 06 03'.
Fulfil the requirements of 17 09 04 'Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03'.
- 13.3 Waste designation: insulating material
- 13.4 Recommendation for packaging disposal:
INTERSEROH Contract No. 31912
ISD INTERSEROH Dienstleistungs GmbH
Stollwerckstraße 9 a
D-51149 Köln
Phone: +49 (22 03) 91 47-0
- 13.5 Additional notes: taking back with liability to pay costs - pure-grade scarp of new ROCKWOOL STEINWOLLE insulating materials from construction sites.

14. TRANSPORT INFORMATION

No specific regulations

15. REGULATORY INFORMATION

The European Directive 97/69/EC replaced by the regulation (EC) n° 1272/2008 concerning the classification, labelling and packaging of the substance and the mixtures does not classify stone wool as hazardous, if they are in compliance with the Note Q of this Regulation.

The ROCKWOOL STEINWOLLE insulating materials of Deutsche Rockwool Mineralwoll GmbH & Co. OHG do not fall into the application area of Appendix II, No. 5, Ordinance on Dangerous Substances and of section 23 of the appendix of § 1 of the Ordinance on the prohibition of chemicals

16. OTHER INFORMATION

Code of Practice "Handling of mineral wool insulation materials (glass wool, stone wool)", version: 05/2010

Pictograms on the packaging give handling instructions to avoid temporary itching.

The 'Gütegemeinschaft Mineralwolle e. V.' has conferred ROCKWOOL STEINWOLLE the RAL quality label 'products made of mineral wool' which is printed on the packaging.

The statements in this Safe Use Instruction Sheet correspond to the state of our knowledge at the time of issue and are subject to the use of our products as agreed. They describe ROCKWOOL STEINWOLLE insulating material only with regard to protective requirements. This does not imply that they guarantee specific properties in a legally binding way.