

EC Group Safety Data Sheet according to TRGS 220

Firm:	<i>DEUTSCHE ROCKWOOL Mineralwoll GmbH & Co. OHG</i>		
Trade name:	<i>ROCKWOOL STEINWOLLE</i>		
revised on:	<i>2005-10-05</i>		
1 Product and firm's designation:			
1.1	Designation of the product:	<i>Stone wool insulating material</i>	
	Trade name:	<i>ROCKWOOL STEINWOLLE</i>	
1.2	Specifications of manufacturer:		
1.2.1	Firm's address:	<i>DEUTSCHE ROCKWOOL Mineralwoll GmbH & Co. OHG Rockwool Straße 37 - 41 45966 Gladbeck Postfach 2 07 45952 Gladbeck</i>	
1.2.2	Telephone: (0 20 43) 4 08 - 4 06	1.2.3	Telefax: (0 20 43) 4 08 - 4 78
		1.2.4	E-mail: <i>utz.draeger@rockwool.de</i>
1.3	Information available from:	<i>Dept. VG, Dr Utz Draeger</i>	
2 Composition of the products/Specification of the components:			
2.1	Description:	<i>Stone wool in processed state with addition of duroplastic synthetic resin, negligible addition of mineral oil and an adhesion agent</i>	
2.2	INDEX No. in accordance with Appendix I 67/548/EWG:	<i>650-016-00-2</i>	
2.3	CAS No.:	<i>28 7922-11-6 HT stone wool (HT stone wool fibres)</i>	
3 Possible dangers:	<i>not applicable</i>		
4 First Aid measures:			
4.1	After eye contact:	<i>Particles penetrating the eyes are to be treated like other foreign bodies, do not rub, rinse thoroughly with water, consult a doctor - if necessary.</i>	
5 Measures for fire-fighting:			
5.1	Appropriate means for extinguishing:	<i>Water and other usual extinguishing agents.</i>	
6 Measures for inadvertent release:	<i>not applicable</i>		
7 Handling and storage:			
7.1	Notes on safe handling:	<p><i>In the event of manifestations as described in No. 11.2 the general principles of industrial hygiene as listed in Section 4 of Part 1 of TRGS 521 are to be observed.</i></p> <p><i>TRGS 521, Section 4:</i></p> <p><i>(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. These principles apply not only for fibre dust in the sense of number 2.3 of TRGS 905 but also for non-classified fibre dusts or fibres with a diameter > 3 µm.</i></p> <p><i>(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</i></p> <ul style="list-style-type: none"> <i>– the use of low-dust processing procedures and equipment in accordance with number 3.3, para. 1 and 2,</i> <i>– the use of pre-prepared products,</i> <i>– careful handling of the products and pieces of waste,</i> <i>– regular cleaning of the workplaces</i> <p><i>or</i></p> <ul style="list-style-type: none"> <i>– ventilation measures at the workplace.</i> 	

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	<p>(3) Other general principles of industrial hygiene are:</p> <ul style="list-style-type: none"> - 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:	<i>Product is incombustible.</i>	
8	Exposure limitation and personal protective equipment:		
8.1	Limit values:	<i>The general dust limit value of 3 mg/m³ (alveolar dust) is applicable, inhalable fraction of 10 mg/m³.</i>	
8.2	Personal protective equipment and hygiene measures:	<i>See 7.1</i>	
9	Physical and chemical properties:		
9.1	<u>Appearance</u>		
9.1.1	Form: <i>solid body</i>	9.1.2 Colour: <i>grey-green</i>	9.1.3 Smell: <i>odourless</i>
9.2	<u>Relevant safety data</u>		
9.2.1	Melting point/melting range:		
	<i>Melting temperature of the stone wool fibres > 1000 °C</i>		
	<i>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".</i>		
9.2.2	Flash-point:)	
9.2.3	Inflammability:)	
9.2.4	Ignition temperature:) <i>incombustible</i>	<i>DIN 4102</i>
9.2.5	Spontaneous ignition:)	
9.2.6	Fire-encouraging properties:)	
9.2.7	Vapour pressure:	<i>at 25 °C below 10⁻³ mbar.</i>	
9.2.8	Bulk density:	<i>20 - 200 kg/m³</i>	
9.2.9	Water-solubility:	<i>at 25 °C below 10⁻³ g/l.</i>	
9.2.10	Solvent content:	<i>contains no solvent.</i>	
9.2.11	Dynamic viscosity:	<i>at 25 °C above 10¹⁰ Pa.s.</i>	
10	Stability and chemical activity:		
10.1	Conditions to be avoided:	<i>none</i>	
10.2	Dangerous reactions:	<i>none</i>	
10.3	Dangerous decomposition products:	<i>none</i>	
10.4	Other information:	<i>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.</i>	

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11	Statements on toxicology:	
11.1	Carcinogenic, mutagenic and reproductive toxic effects:	<i>None. Owing to their high biosolubility, the fibre types of ROCKWOOL stone wool insulation materials (HT stone wool fibres) are assessed as free from suspicion of carcinogenic effects not only in accordance with TRGS 905, section 2.3, but also in accordance with EU directive 97/69/EC (Nota Q). 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 µm, D < 3 µm, L:D > 3) as well as for fibres with a length > 20 µm.</i>
11.2	Other observations:	<i>In the case of coarser fibres there can be physical effects on skin, conjunctiva or mucous membrane which can cause temporary, self-fading effects (e.g. itching) as can also occur with other fibres and non-fibrous particles. No chemical effects ensue. Adequate work clothing protects (see No. 7.1). Not irritant according to OECD Guideline No. 404. There is no experience based on practical observation that after exposure to mineral wool significant inflammation of the skin was induced.</i>
12	Notes on product disposal:	
12.1	Recommendation:	<i>Disposal on land fill sites for debris and rubbish.</i>
12.2	Waste code No.:	<i>17 06 04 'Insulating materials other than those mentioned in 17 06 01 and 17 06 03'. Fulfils 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'.</i>
12.2	Waste designation:	<i>insulating material</i>
12.3	Recommendation for packaging disposal:	<i>INTERSEROH Contract No. 31912 ISD INTERSEROH Dienstleistungs GmbH Stollwerckstraße 9 a D-51149 Köln Phone: +49 (22 03) 91 47-0</i>
12.4	Additional notes:	<i>taking back with liability to pay costs - pure-grade scrap of new ROCKWOOL STEINWOLLE insulating materials from construction sites</i>
13	Statements on transport:	
		<i>not applicable</i>
14	Stipulations:	
14.1	Water-pollution class (if necessary, self-classification):	<i>Not water-polluting in the sense of § 19 g, para. 5, WHG (as per number 1.2 a VwVwS)</i>
15	Other statements:	
15.1	Further information:	<i>Code of Practice "Handling of mineral wool insulation materials (glass wool, stone wool)", version: 10/2000 The ROCKWOOL STEINWOLLE insulating materials of Deutsche Rockwool Mineralwoll GmbH & Co. OHG do not fall into the application area of Appendix IV, No. 22, Ordinance on Dangerous Substances and of section 23 of the appendix of § 1 of the Ordinance on the prohibition of chemicals. 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 group safety data 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 in regard to protective requirements. This does not imply that they guarantee specific properties in a legally binding way.</i>