

Company: KNAUF INSULATION d.o.o. Novi Marof	
Trade name: TERVOL rock wool insulating materials (resin-cured)	
1. Name of substance/preparation and of company	
1.1.	Name of product : <i>TERVOL</i>
1.1.1.	Product no.:
1.2.	Company identification:
1.2.1.	Address: <i>KNAUF INSULATION d.o.o. Varaždinska 140 HR-42220 Novi Marof, Croatia</i>
1.2.2.	Telephone: <i>(00385) 042 401 300</i>
1.2.3.	Fax: <i>(00385) 042 611 030</i>
1.2.4.	e-mail: <i>nenad.zeljak@knaufinsulation.hr</i>
1.3.	Contact : <i>Nenad Zeljak 00385 42 401 336</i>
1.4.	Emergency telephone:
1.5.	Toxicological institute:
2. Composition, details of constituents	
2.1.	Chemical characterization: <i>Processed rock wool (glasslike solidified fibres from rock melts) with minor additions of mineral oil (and coupling agents if necessary) and bound by addition of thermosetting synthetic resin</i>
2.2.	EINECS-No.:
2.3.	Hazardous ingredients (stating concentration): <i>none</i>
2.4.	Risk phrases : -
2.5.	Additional notes : -
3. Potential hazards	
3.1.	Risks for people and the environment: -
3.2.	Additional notes: -
4. First aid measures	
4.1.	In the case of skin contact:: -
4.2.	In the case of eye contact: <i>Treat particles that have got into the eye like any other foreign body, rinse thoroughly with water, consult doctor if necessary</i>
4.3.	In the case of ingestion: -
4.4.	In the case of inhalation: -
4.5.	Notes for doctor: -
4.6.	Additional notes: -
5. Fire fighting measures	
5.1	Suitable extinguishing media: <i>usual extinguishing media (water, universal –type foams, dry chemicals)</i>
5.2	Risks form combustion or decomposition products: -
5.3	Special protective gear: -
5.4	Additional notes: -

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6. Accidental release measures		
6.1.	Personal precautions:	-
6.2.	Directions for cleaning/mopping:	-
6.3.	Environmental precautions:	-
6.4.	Additional notes:	-
7. Handling and storage		
Notes for safe handling:		
<ul style="list-style-type: none"> - Working area must be well ventilated – Keep windows and doors open. - Keep working area clean. - Avoid whirling up dust – In rooms: Use vacuum cleaner instead of broom. - Use tools and working procedures that do not generate dust. - Remove packing material only in the working area. - Take special care when removing old insulation material, e.g. keep sufficiently moist during demolition. - Wear goggles in case of heavy dust formation or overhead work. - Wear P1 dust mist respirator or FFP1 particle-filtering respirator - Wear suitable work clothes and gloves. 		
7.2.	Notes on fire and explosion protection:	<i>The product is not combustible</i>
7.3.	Storage conditions:	-
7.4.	Storage with other materials:	-
7.5.	Storage class:	<i>not applicable</i>
7.6.	Additional notes:	-
8. Exposure limit and personal protective gear		
8.1.	Limit values:	<i>General dust limit value: 3 mg/m³</i>
8.2.	Breathing apparatus:	<i>P1 dust mist respirator or FFP1 particle-filtering respirator</i>
8.3.	Hand protection:	<i>Wear suitable gloves (leather gloves).</i>
8.4.	Eye protection:	<i>Wear protective goggles in the case of strong dust formation or overhead work.</i>
8.5.	Skin protection:	<ul style="list-style-type: none"> - <i>Wear loose-fitting, closed work clothes and suitable gloves.</i> - <i>Use greasing, tan-like protective cream for sensitive skin.</i>
8.6.	Hygiene measures:	<i>Wash off dust with water after work.</i>
8.7.	Additional notes:	<i>see No. 7.1</i>

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9.1.	Appearance:	
9.1.1.	Physical state:	<i>solid</i>
9.1.2.	Colour:	<i>yellowish-grey</i>
9.1.3.	Odour:	<i>-</i>
9.2.	Safety-relevant data:	
9.2.1.	Boiling point/boiling range:	<i>-</i>
9.2.2.	Melting point/melting range:	<i>> 1000 °C</i>
9.2.3.	Change of state:	<i>Solid/liquid > 1000 °C</i>
9.2.4.	Flash point:	
9.2.5.	Flammability:	
9.2.6.	Ignition temperature:	<i>not combustible acc. to EN 13501-1</i>
9.2.7.	Auto-ignition:	
9.2.8.	Fire-promoting characteristics:	
9.2.9.	Explosion hazard:	<i>-</i>
9.2.10.	Vapour pressure (25 °C):	<i>< 10⁻³ mbar</i>
9.2.11.	Bulk density	<i>30-180 kg/m³</i>
9.2.12.	Water solubility:	<i>< 10⁻³ g/l</i>
9.2.13.	pH value (at 1000 g/l H ₂ O):	<i>7 - 8</i>
9.2.14.	Solvent content:	<i>none</i>
9.2.15.	Dynamic Viscosity (25°C):	<i>> 10¹⁰ Pa·s</i>

10. Stability and reactivity

10.1.	Decomposition by heat:	<i>none</i>
10.2.	Hazardous reactions:	<i>none</i>
10.3.	Hazardous decomposition products:	<i>none</i>
10.4.	Additional remarks:	<i>When first heated to temperatures > 250 °C low temperature carbonisation gas formed. Carbonisation gas is non toxic acc. to DIN 53436.</i>

11. Toxicological information

11.1.	Acute oral toxicity (LD ₅₀ /LC ₅₀):	<i>-</i>
11.2.	Sensitization:	<i>-</i>
11.3.	Irritation and abrasive effects:	<i>-</i>
11.4.	Effects after longer exposure:	<i>-</i>
11.5.	Carcinogenic, mutagenic, and reproductive toxicity effects:	<i>none</i>

Tervol fibres are produced in conformity with Note Q of the European Directive 97/69/EU of 05.12.1997.

Self-assessment to Sec. 13 Chemicals Act:

On the basis of the current level of scientific knowledge and comprehensive tests, our rock wool fibres are free of any suspicion to effect cancer.

According to experience to date, if used with care, no effects constituting a danger to health have been established.

Other observations:

Coarse fibres resp. fibre fragments can have a mechanical effect on skin, conjunctiva and mucous membranes. This will cause temporary reactions (e.g. itching) that will pass without any treatment. Such reactions are typical for all other fibrous and non-fibrous types of dust and can be avoided by adequate work clothes (see No. 7.1 and 8.2 -8.6). There are no chemical effects.

According to experience to date, if used with care, no effects constituting a danger to health have been established.

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12. Ecological information	
12.1.	Environmental hazard classification according to danger symbol "N": -
12.2.	Data concerning elimination: -
12.3.	Eco-toxic effect (e.g. behaviour in sewage works): -
12.4.	Other ecological information:
12.4.1.	CSB-value (mg/l): -
12.4.2.	BSB-value: -
12.4.3.	AOX-value: -
12.5.	Additional remarks: -
13. Disposal considerations	
13.1.	Disposal code no.: <i>EAK No. 170604</i>
13.2.	Waste description: <i>Other insulating materials</i>
13.3.	Accountability: <i>() yes (x) no</i>
13.4.	Recommendation on the disposal of the packaging: -
13.5.	Additional remarks: -
14. Transport information	
14.1. Surface transport ADR/RID and GGVS/GGVE:	
14.1.1.	Class: <i>not applicable</i>
14.1.2.	Identification of the product: <i>Tervol</i>
14.2. Sea transport IMDG/GGVSEE:	
14.2.1.	Class: <i>not applicable</i>
14.3. Air transport ICAO-TI and IATA-DRG:	
14.3.1.	Class: <i>not applicable</i>
14.3.4.	Proper technical name: <i>Rock Wool Insulating Material (resin-bonded)</i>
14.4.	Additional remarks: -
15. Regulatory information	
15.1.	Labelling according to Directive 91/155 EEC and Chemicals Act <i>not applicable to Tervol</i>
15.2.	"R"-phrases: -
15.3.	"S"-phrases: -
15.4.	Special labelling of specific preparations: -
15.5. National regulations:	
15.5.1.	Remarks on employment restrictions: -
15.5.2.	Accident Ordinance: <i>not applicable</i>
15.5.3.	Restrictions and ordinances: -
16. Other information	
16.1.	Further information: <i>Tervol rock wool insulating materials produced by Knauf Insulation d.o.o. Novi Marof Insulation have been awarded the EUCEB - quality certificate . (EUCEB=European Certification board for Mineral Wool Products, Avenue Louise 375/4, 1050 Brussels, Belgium) . This quality certificate is only granted for fibre types that are produced under internal and external supervision guaranteeing that they are in conformity with Note Q of the European Directive 97/69. All information contained in this group safety data sheet is in accordance with our state of knowledge at the date of issue and describes the regulations for health and safety at work necessary for the specified application of Tervol rock wool insulating materials. However, this information does not purport to guarantee certain characteristics in a legally binding way.</i>