

# Material Safety Sheet in accordance with 91/155 EEC

and the rules of the Danish working environment legislation

Company: ROCKWOOL A/S

Trade name: Stone wool products from ROCKWOOL A/S based on the Roxul® 1000 fibres. **General Material Safety Sheet.**

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Revised on: 2003-01-01. Replaces version of 2001-09-06.

Authorised by: Health & Safety Manager Ib Kristensen

## 1. Identification of the material and the supplier

1.1 Product: Generic name: Insulation consisting of stone wool based on the Roxul® 1000 fibre (HT stone wool)

1.2 Company address: Rockwool A/S  
Hovedgaden 501  
2640 Hedehusene  
Denmark

1.3 If further information is required, please contact us  
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Home page: [www.rockwool.dk](http://www.rockwool.dk)

## 2. Composition/information on ingredients

Mineral wool fibres to which binder has been added, which will in the hardening process turn into a thermally stable man-made material (Bakelite). Oil is added to make the products water repellent and to reduce the dust release.

Possible decomposition products: None under normal use.

| Mineral wool: Man-made vitreous silicate fibres | CAS No.     | Contents | Classification | R-phrases          |
|---|-------------|----------|----------------|--------------------|
|   | 287922-11-6 | 90-99%   | x <sub>i</sub> | Irritating to skin |

## 3. Hazard identification

3.1 Bio-soluble stone wool (Roxul® 1000 stone wool): EU has classified this mineral wool type as locally irritating (irritates the skin). High dust levels may irritate nose, mouth, throat and eyes. As to risk of cancer, this fibre is exempt from classification by EU, because it is bio-soluble.

## 4. First aid measures

Skin: If irritation occurs, do not rub or scratch. Rinse the skin under running water.

Eyes: If irritation occurs, do not rub the eyes. Rinse the eyes with water. Consult a physician if irritation persists.

## 5. Fire-fighting

Stone wool products from Rockwool A/S are non-combustible and therefore do not present a hazard in the event of fire.

|  |   |
|--|---|
| 5.1. Suitable fire extinguishing media   | Water, foam, carbon dioxide or dry powder   |
| 5.2. Extinguishing media which must not be used for safety reasons                     | None  |
| 5.3. Combustion products   | Carbon dioxide, carbon monoxide, water and tracer gases                               |
| 5.4. Special personal protective equipment to be worn in connection with fire fighting | None in particular (only what is normally used in connection with fire extinguishing) |

## 6. Accidental release measures

None

|   |   |   |                               |
|---|---|---|-------------------------------|
| <b>7. Handling and storage</b>  |   |   |                               |
| 7.1   | Handling:   | Unpack stone wool on a firm and clean base at the place of use immediately before use. When cutting is required, use a sharp tool. High-speed cutting tools must always be provided with mechanical exhaust. Keep the work area clean. Ensure good ventilation. Dispose of scrap material and debris directly into disposal bags.<br>Clean with the least possible dust release, e.g. by sweeping with water spraying or vacuum cleaning.   |                               |
| 7.2   | Storage:  | The products must be stored so that they are protected against damage, including the weather.   |                               |
| <b>8. Exposure control/personal protection</b>  |   |   |                               |
| 8.1.  | Protection of the respiratory system  | Use respiratory protection in connection with particularly dusty work. Use at least class P2 respiratory protection.  |                               |
| 8.2.  | Protection of the hands   | Use suitable protective gloves.   |                               |
| 8.3.  | Protection of the eyes  | Use eye protectors in connection with particularly dusty work.  |                               |
| 8.4.  | Protection of the skin  | Use special, dust-repellent work clothes in connection with particularly dusty work. (Loose-fitting work clothes possibly as a one-piece suit)  |                               |
| <b>9. Physical and chemical properties</b>  |   |   |                               |
| Material state:   | Solid   | Colour:   | Grey-green                    |
|   |   | Odour:  | None                          |
|   |   | Fibre density:  | approx. 2.8 g/cm <sup>3</sup> |
| pH of concentrate: 9-10 (CEN method, pH of water)   |   | pH of solution for use: ÷   |                               |
| Melting point:  | >1000°  | Boiling point:  | ÷                             |
|   |   | Flash point:  | Non-flammable                 |
|   |   | Steam pressure:   | ÷                             |
| Spontaneous ignition:   | ÷   | Explosive properties:   | ÷                             |
|   |   | Oxidising properties:   | ÷                             |
| Solubility in water:  | ÷   | Solubility in grease:   | ÷                             |
| Distributing coefficient water:   |   |   |                               |
| Other data:   |   |   |                               |
| <b>10. Stability and reactivity</b>   |   |   |                               |
| Situations to be avoided:   |   | None  |                               |
| Materials to be avoided:  |   | None  |                               |
| <b>11. Toxicological information (properties hazardous to health)</b>                         |   |   |                               |
| 11.1.   | Coarse fibres   | Coarse fibres can cause itching and skin eruption. Mineral wool dust can cause mucous membrane trouble in the nose, mouth, throat and eyes.<br>The trouble is due to a mechanical reaction to dust and coarse fibres and usually disappears a short while after the exposure to fibres and dust has come to an end.   |                               |
| 11.2.   | Respirable fibres (Roxul <sup>®</sup> 1000 fibres)<br>Generic name: (HT) stone wool<br>High aluminium – low silicon | The mineral wool fibre <b>Roxul<sup>®</sup> 1000</b> meets EU's requirement for a high bio-solubility according to EU Directive 97/69/EC note Q and therefore <b>the fibre is exempt from the classification "Possibly carcinogenic to man"</b> .<br>The <b>Roxul<sup>®</sup> 1000 fibre</b> has been examined in accordance with EU protocol ECB/TM 26 rev. 7.<br>In October 2001 WHO's International Agency for Research on Cancer removed stone wool from a classification as "Possibly carcinogenic to man".<br>The National Labour Inspection subsequently removed the stone wool produced in Denmark from the Danish cancer list. |                               |
| <b>12. Environmental information</b>  |   |   |                               |
| Stable product without any known negative environmental effects. The product can be recycled. |   |   |                               |

### 13. Disposal

Mineral wool refuse is to be considered hazardous refuse due to the classification as "locally irritating". However, the Danish Environmental Protection Agency recommends disposal as hitherto, i.e. deposition. Return arrangement available for mineral wool residue from building sites.

### 14. Transport information

Pallet transport only in unbroken packaging.

### 15. Regulatory information

|                    |   |
|--------------------|---|
| Marking:           | In accordance with 91/155 EEC/DK's regulations<br>(Has not yet been accepted in DK)   |
| Contents:          | Mineral wool (man-made, vitreous silicate fibres)   |
| EU classification: | x <sub>i</sub> locally irritating   |
| Danger symbols:    |   |
| R-phrase:          | (R-38) irritates skin   |
| S-phrase:          | <i>Use special work clothes and suitable protective gloves.</i><br>In connection with direct sale to user, the following should be stated: <i>To be stored out of the reach of children. S(2-) 36/37.</i> |
|                    | This stone wool is exempt from classification as possibly carcinogenic (Carc. Cat 3 according to the Commission's Directive 97/69-EF of 5th Dec. 1997).   |
|                    | Threshold limit values: Stone wool fibres: 1 fibre/cm <sup>3</sup> (acc. to Danish legislation)<br>Mineral dust, inert, respirable: 5 mg/m <sup>3</sup>   |

**16. Further information:** EURIMA information note concerning health information, [www.eurima.org](http://www.eurima.org)

The Commission's Directive 97/69/EF

NB! See special **Material Safety Sheet for Firebatts, Wired Mats, Pipe Sections, Industrial Wool and Universal Rolls.**