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 (slabs, mats, pipe sections or loos wool), are articles under REACH and therefore, MSDS is not legally required. Nevertheless, Paroc Group decides to provide its customers with the appropriate information for assuring safe handling and use of mineral wool through this MSDS.

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name / Substance name
PAROC stone wool (form shaped)

Company product code

REACH Registration number:
01-2119472313-44-0007 Paroc Oy Ab, Finland
01-2119472313-44-0017 Paroc Ab, Sweden
01-2119472313-44-0020 Paroc Polska sp. z o.o., Poland
01-2119472313-44-0014 UAB Paroc, Lithuania

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

The uses of the chemical
Stone wool products for building, technical and sound insulation. The products are form shaped like slabs, mats or pipe sections.

Classification of economic activities (NACE) (*)
268

Use categories (UC62) (*)
32

The chemical can be used by the general public (*)
x

The chemical is used by the general public only (*)

1.3 Details of the supplier of the Safety Data Sheet

Supplier
Paroc Group

Street address
Energiakuja 3

Postcode and post office
00180 Helsinki

Post-office box
P.Box 240

Telephone number
+358 46 876 8000

Telefax
+358 46 876 8002

E-mail address
Communications@paroc.com

Finnish Business ID (Y code) (*)

1.4 Emergency telephone number

Product information: +358 46 876 8000
Operation hours: 8:00 – 17:00

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Paroc stone wool has no classification

2.2 Label elements

Not applicable

(*) concerns only chemical notification
(**) either 3.1 or 3.2 must be filled
2.3 Other hazards

The mechanical effect of fibres in contact with skin may cause temporary itching. Decomposition of binder above 190°C may produce carbon dioxide and some trace gases.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances (**)

<table>
<thead>
<tr>
<th>Main constituent / constituent</th>
<th>CAS-, EC- or index number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral wool **</td>
<td>Not classified</td>
<td>95 – 99 %</td>
</tr>
<tr>
<td>Binder</td>
<td>Not classified</td>
<td>1 – 5 %</td>
</tr>
<tr>
<td>Oil</td>
<td>Not classified</td>
<td>0.1 – 0.5 %</td>
</tr>
</tbody>
</table>

* Man-made vitreous (silicate) fibres with random orientation with alkali oxide and alkali earth oxide (Na2O+K2O+CaO+MgO+BaO) content greater than 18% by weight and fulfilling one of the nota Q conditions.

Possible facing materials: glass mat, polyester mat, aluminium foil or paper

3.2 Mixtures (**)

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-, EC- or index number</th>
<th>REACH Registration No.</th>
<th>Concentration</th>
<th>Classification</th>
</tr>
</thead>
</table>

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: Remove from exposure. Rinse the throat and blow nose to clear dust.
Skin contact: If itching occurs because of mechanical effects of the fibres, remove contaminated clothing and wash skin gently with cold water and soap.
Eyes contact: Rinse abundantly with water.
Ingestion: Drink plenty of water if accidentally ingested.

4.2 Most important symptoms and effects, both acute and delayed

The mechanical effects of fibers can cause temporary itching.

4.3 Indication of any immediate medical attention and special treatment needed

Not applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

There are no special demand for extinguishing media. Normal extinguishing media can be used.

5.2 Special hazards arising from the substance or mixture

Not applicable

5.3 Advice for firefighters

Not applicable

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Not applicable

6.3 Methods and material for containment and cleaning up

Vacuum cleaner or dampen down with water spray prior to brushing up.

6.4 Reference to other sections

See section 7.1 and 8.2.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

When installing insulation in unventilated spaces a suitable disposable facemask should be used. When handling product, cover exposed skin. Wear goggles when working with product overhead. Dispose of waste in accordance with local regulations. Clean area using vacuum equipment. If itching occurs, it may be lessened by rinsing in cold water before washing.

7.2 Conditions for safe storage, including any incompatibilities

Keep material in original packaging protected against humidity and mechanical damage until it is to be used.
7.3 Specific end use(s)
Not applicable

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

National occupational exposure limit values
Mineral wool fibre 1 fibre/cm$^3$ (FI, SWE, LT)

Other limit values
Inorganic dust 10 mg/m$^3$ (FI, SWE, LT) and 0.4 mg/m$^3$ (PL)

DNEL
Not applicable

PNEC
Not applicable

8.2 Exposure controls

Appropriate engineering controls

The following sentence and pictograms are printed on the packaging.

"The mechanical effect of fibres in contact with skin may cause temporary itching"

Eye / face protection
Wear goggles when working overhead. Eye protection to EN 166 is advised.

Skin protection
Cover exposed skin.

Hand protection
Gloves to avoid itching in conformity with EN 388.

Respiratory protection
When working in unventilated area or during operations which can generate emission of any dust, wear disposable face mask. Type in accordance with EN 149 FFP2 is recommended.

Thermal hazards
Not applicable

Environmental exposure controls
Not applicable
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid, fibrous, grey</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Over 1000°C stone wool begins to soften and melt</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Non combustible</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density</td>
<td>20-250 kg/m³</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>The products are practically insoluble in water and organic solutions.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

**9.2 Other information**

Not applicable

### SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity**

Not applicable

**10.2 Chemical stability**

Not applicable

**10.3 Possibility of hazardous reactions**

Not applicable

**10.4 Conditions to avoid**

Not applicable

**10.5 Incompatible materials**

Not applicable

**10.3 Hazardous decomposition products**

None in normal condition of use.

**For high temperature uses:**

Thermal decomposition of binder starts above 190°C releasing smelling/odorous gases. The duration 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.
SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Not toxic

Skin corrosion/irritation
The mechanical effect of fibres in contact with skin may cause temporary itching.

Serious eye damage/irritation
May cause short-term mechanical irritation.

Respiratory or skin sensitisation
May cause short-term mechanical irritation.

Germ cell mutagenicity
Not applicable

Carcinogenicity
Not applicable

Reproductive toxicity
Not applicable

STOT-single exposure
Not applicable

STOT-repeated exposure
Not applicable

Aspiration hazard
Not applicable

Other information
Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Not toxic

12.2 Persistence and degradability
Persistent

12.3 Bioaccumulative potential
A very small possibility for water species

12.4 Mobility in soil
A very small possibility

12.5 Results of PBT and vPvB assessment
Not applicable

12.6 Other adverse effects
Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Stone wool waste is according to the European waste catalogue classified as non-hazardous waste (code 17 06 04) and can be disposed on a landfill for non-hazardous waste.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number
14.2 UN proper shipping name
Not applicable

14.3 Transport hazard class(es)
Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards
Not applicable

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
The stone wool fibres meet the claims in Note Q according to the European Classification Regulation No 1272/2008 about classification, labelling and packaging (CLP). Paroc stone wool has no classification.
All products manufactured by Paroc are made of non-classified fibres and are certified by EUCEB and RAL.
EUCEB, European Certification Board of Mineral Wool Products – www.euceb.org is a voluntary initiative by the mineral wool industry. It is an independent certification authority guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Directive 97/69/EC and the Regulation (EC) 1272/2008.
The products conform to the EUCEB and RAL certification. The EUCEB and RAL logo on the package is a proof of that.

15.2 Chemical safety assessment
Not applicable

SECTION 16: OTHER INFORMATION

Indication of changes
Clarification in section 2

Abbreviations and acronyms
Not applicable

Key literature references and sources for data
See section 15.

Used method in evaluating classification
See section 15.

List of relevant H-and P-phrases or/and safety and precautionary statements
No safety or precautionary statements.

Training advice for workers
Not applicable