

PRODUCTS BASED ON ROCK (STONE) WOOL**STATEMENT OF HAZARDOUS NATURE:**

This product is *NOT* classified as hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC).

1. GENERAL

- 1.1 Manufacturer's Name:** **Rockfon A/S**
 Hovedgaden 501
 DK – 2640 Hedehusene
 Denmark
 (part of the Rockwool International Group)
- 1.2 Australian Agent:** **Australasian Insulation Supplies Pty Ltd**
 56 Cutler Road
 Jandakot WA 6164
- 1.3 Trade and Synonyms:** **Generic Name:** Stonewool ceiling tiles
Trade Name: Rockfon®
- 1.4 Manufacturers' Product Code:** See attached list as Annex A
- 1.5 UN Number:** None allocated
- 1.6 Dangerous Goods Class and Subsidiary Risk:** None allocated
- 1.7 Hazchem Code:** None allocated
- 1.8 Poisons Schedule Number:** None allocated
- 1.9 Use:** Acoustic ceiling panels for commercial and industrial buildings such as offices, hotels, hospitals, schools, sports centres and factories. Panels are normally suspended in a metal grid.

2. COMPOSITION INFORMATION ON INGREDIENTS

| 2.1 Chemical Name | CAS Number | Proportion (WT%) |
|---|-------------------|-------------------------|
| Ca-Mg-Al-silicate fiberised bio-soluble rock | - | 75-95% |
| Bakelite, a synthetic, thermo-setting resin and refined mineral oil (≥0.3%) | - | 2-4% |
| Adhesive – water based copolymer | - | 1-2% |
| Glass fibre tissue | - | 2-10% |
| Paint – (95% calcium and chalk with a binder of acrylpolymer) | - | 0-15% |

3. PHYSICAL AND CHEMICAL PROPERTIES

- 3.1 Appearance:** Panels are supplied several standard module sizes with a white or coloured, painted, textured face and a tissue lined backing. All edges of the panel are treated with a sealing treatment to eliminate any measurable loss of particles.
- 3.1.1 Odour:** Not Applicable
- 3.1.2 pH (a 1000g/H₂O, 25°C):** 7-8 (DIN 54275)
- 3.1.3 Boiling point:** Not Applicable
- 3.1.4 Melting point:** above 1000°C
- 3.1.5 Flash point:** Not Applicable
- 3.1.6 Flammability:** Not Applicable
- 3.1.7 Autoflammability:** Non-flammable (DIN 4102)
- 3.1.8 Explosive properties:** Not Applicable
- 3.1.9 Oxidizing properties:** Not Applicable
- 3.1.10 Vapor pressure:** Not Applicable
- 3.1.11 Product density:** 60 -150 kg/m³
- 3.1.12 Solubility:** Not Applicable
- 3.1.13 Partition coefficient:** Not Applicable
- 3.1.14 Other data:** The base material of Rockfon is stone wool which consists of greater than 85% fibres and less than 15% unfiberised particles (shot) when measured to ASTM C612-93. Fibres are made to a target diameter of 5 microns, being non-respirable fibres. However a small percentage of fibres may fall outside this range.
- 3.1.15 Other properties:** The fibres and particles are amorphous (non-crystalline). The resin and refined mineral oils bond the fibres and particles together and minimise the release of dusts. The cured resin is stable and will remain intact for the life of the product under normal atmospheric conditions.

4. HEALTH HAZARD INFORMATION

- 4.1 Hazard Identification** As the Rockfon products are sealed and the wool is closed on all surfaces – Rockfon products are not classified as irritant. However, when the material needs to be cut during installation at walls and around service penetrations, the core material is exposed which may cause a mechanical reaction to skin in some people. Should high dust levels be generated this may cause a reaction to the throat and eyes. Stonewool insulation, once installed, is not a source of dust and does not cause any health effects. Handling, installing or removing the product may result in some stonewool dust, but concurrent exposure to other construction materials and general dusts will also be likely. Users of this product are therefore advised to consider all sources of airborne dust when handling, installing or removing rock(stone)wool insulations.

Health Effects

4.2 Acute – (Short Term)

If cut there may be a possible skin reaction due to exposure to coarse dusts (fibres and particulates greater than 5.0 micron diameter) with some people prone to skin sensitivity.

4.3 Swallowed

Unlikely under normal conditions of use but may result in a reaction of the lips and mouth if sufficient quantity is ingested.

4.4 Eye

If cut the rock (stone) wool dust may get into the eyes and can cause discomfort resulting in watering and redness.

4.5 Skin

If cut the handling of rock(stone)wool and its dust may cause a reaction of the skin resulting in itching and occasionally a red rash. The rash is not allergic and usually disappears quickly.

4.6 Inhaled

When cut, the dust, if inhaled in sufficient quantities may cause discomfort of the nose and throat, especially in those suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

4.7 Chronic (Long Term)

There are no known long term health effects. These rock(stone)wool products have been shown to be bio-soluble. Bio-soluble means that any stonewool particulates inhaled into the lungs dissolve in body fluids in the same way as other ambient dusts, and are then cleared from the lungs.

5. FIRST AID MEASURES

5.1 Swallowed

Rinse the lips and mouth with water, give water to drink and seek medical attention.

5.2 Eye

If an eye reaction occurs, do not rub eyes. Flush with flowing water for at least 15 minutes and if symptoms/irritation persists, seek medical attention.

5.3 Skin

If skin reaction occurs, do not rub or scratch. Rinse under running water prior to washing with mild soap and water and if itching persists, seek medical attention.

5.4 Inhaled

Remove to fresh air.

5.5 Advice to Doctor

Treat symptomatically.

6. PRECAUTIONS FOR USE

6.1 Exposure Standards:

None allocated for this product. Rock(stone)wool insulation is not subject to specific state occupational health and safety regulations.

6.2 Engineering Controls:

Work practices should minimise the release of, and exposure to, fibres and/or dust if the material is to be cut. Hand tools that generate the least amount of dust should be used. If power tools are used, they should be equipped with appropriate dust collection systems. Work areas, if dusty, should be cleaned by simple hand vacuuming.

6.3 Ventilation:

During most applications and installation of this product, no special ventilation is required. However, if a very dusty work environment exists, normally due to other construction material dusts then local exhaust ventilation should be provided if the general dust level is in excess of 2 mg/m³ (TWA) of inspirable dust.

6.4 Personal Protection:

6.4.1 Skin Protection:

Rockfon is a completely sealed product and will not emit any measurable level of dust. Cutting of the product will only be required where provision has been made in the suspension grid for part panels. Normal stone wool insulation handling procedures should be adopted for handling of cut or trimmed panels.

6.4.2 Eye Protection:

No special requirements unless cutting. Ventilated, non-fogging dust resistant goggles conforming to Australian and New Zealand Standards AS/NZS 1336 (Recommended practices for occupational eye protection) should be worn when handling rock(stone)wool overhead.

6.4.3 Respiratory Protection: No special requirements unless cutting. An approved particulate respirator conforming to Australian and New Zealand Standards AS/NZS 1715 (Selection, use and maintenance of respiratory protective devices) and 1716 (Respiratory protective devices) should be worn whenever personally desired or when handling cut or trimmed panels or where it is suspected that dust levels exceed the National Standard for inspirable dust (use historical monitoring results as a guide for specific applications).

6.4.4 Personal Hygiene:

Washing facilities should be available on site to wash the skin and to treat any dust in the eyes.

6.5 Flammability:

Rock(stone)wool is non-combustible and non-flammable, but the packaging materials are combustible. All surfaces of Rockfon have a low smoke developed index (typically 0-1 via AS 1530 Pt 3) in accordance with the BCA requirements.

7. SAFE HANDLING INFORMATION

7.1 Storage and Transport:

No special precautions are necessary. Individual cartons should be handled with care and not dropped. Unpack material at application site to avoid unnecessary handling on product. To reduce the risk of soiling products, the use of clean white gloves is recommended during handling and installation. The cutting of Rockfon products at walls and service penetrations can be easily done with a sharp knife. To maintain the appearance of a cut edge, visible cut edges should be coated with the appropriate Rockfon edge paint.

This product should be stored in its factory packaging until it is used.

This product is not regulated as dangerous goods. No special transport requirements are necessary.

7.2 Spills and Disposal: Any spilt material due to accidents or off-cuts from insulation should be cleaned up, and disposed of in accordance with local authority guidelines.

7.3 Fire/explosion Hazard: Not applicable because rock(stone)wool retards the spread of fire.

7.4 Further Information: According to World Health Organization International Agency for Research on Cancer, Rock(stone)wool is classified as Group 3, "not classifiable as to its carcinogenicity to humans". Refer IARC Working Group in Man-Made Vitreous Fibres – Volume 81 of the IARC Monographs, Lyon 9-16, October 2001.

8. CONTACT POINT

For further information on this product please contact Rockwool International Group's agent in Australia:

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