Unit 20, Millennium Business Park, Cappagh Road, Dublin 11, Ireland.
Tel: + 353 1 8649004 Email: info@iqdesign.ie Web: www.iqdesign.ie

SMARTCARE Vermiculite Board

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Supplier:
IQ Design, Unit 20, Millennium Business Park, Cappagh Road, Dublin 11, Ireland.
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Trade Names :
SmartCare Vermiculite Board

Chemical Name:
Mixture of exfoliated vermiculite and potassium silicate binder

2. INGREDIENTS

Component	CAS Number
Vermiculite	1318-00-9
Potassium silicate	1312-76-1
Cristobalite	14808-60-7

3. HAZARDS IDENTIFICATION

Emergency Overview
Product is blocks or boards having yellowish colour and no odour. Dusts generated during sawing, cutting or abrasion of product may cause rritation of the eyes, skin, mucous membranes and respiratory tract. Use appropriate personal protective equipment. Keep unnecessary personnel out of the area when working with the product.

Potential Health Effects:

Eye Contact:	Dusts may cause irritation.
Skin Contact:	Dusts may cause irritation.
Skin Absorption:	Not known to be absorbed through intact skin.
Inhalation:	Dusts may cause respiratory tract and mucous membrane irritation. Inhalation of cristobalite can cause lung damage, silicosis and/or cancer.
Ingestion:	Not expected to be an important route of entry into the body. Ingestion of large amounts of the product may cause irritation of the mouth, oesophagus, and stomach.

CHRONIC AND CARCINOGENIC HEALTH EFFECTS:
The International Agency for Research on Cancer (IARC) in Monograph 68, published in June 1997, states: There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources. Pre-existing lung and skin conditions possibly may be aggravated by prolonged exposure to high concentrations of the product.

4. FIRST AID MEASURES

Inhalation:	Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.
Eyes:	Flush with tepid water for at least 20 minutes while holding the eyelids wide open. Seek medical attention if irritation develops.
Skin:	Wash thoroughly with mild soap and water. Seek medical attention if irritation develops. Launder contaminated clothing before reuse.
Ingestion:	Not expected to be an important route of entry into the body. If large amounts of the product are ingested, seek medical attention.

5. FIRE FIGHTING MEASURES

Flash Point:	None
Lel:	None
Uel:	None
Autoignition T emperature:	None

Product will not burn in air. Use fire fighting methods suitable for other materials present in the surrounding fire.
A self-contained breathing apparatus operating in positive pressure mode and full fire fighting gear should be worn for combating fires.

6. ACCIDENTAL RELEASE MEASURES

Pick up released product using appropriate implements and place in appropriate containers for disposal. Appropriate personal protective equipment cited in Section 8 should be worn during clean-up operations. Although the product itself is not classified as a hazardous material under EPA and DOT regulations, material collected during clean up may be contaminated with hazardous materials. If there is a potential for contamination with hazardous materials, material collected during clean up should be treated as hazardous until specific testing, including TCLP, shows the material to be non-hazardous.

7. HANDLING AND STORAGE

Wear appropriate protective equipment cited in Section 8 during handling. Good housekeeping practices should be employed to prevent generation and accumulation of dusts. After handling product, wash face and hands before eating, drinking, or smoking.

8. EXPOSURE CONTROL - PERSONAL PROTECTION

Respiratory Protection:	A Respiratory mask should be worn when working with this product
Eye Protection:	Safety glasses with side shields should be worn when working with this product. Goggles should be worn while the product is being sawed or ground. Do not wear contact lenses when working with this product.
Skin Protection:	Use of protective gloves is recommended to prevent possible irritation while working with this material. Leather gloves or polymeric materials such as polyvinyl chloride are suggested to minimize scratching or abrasion of the skin. A polymer-coated apron is recommended where there is a possibility that work clothing may become heavily contaminated with dust from working with this product. Soiled work clothing and personal protective equipment should be thoroughly cleaned before reuse.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Physical

Melting Point:	1,300 °C
State:	Yellow solid
Odour:	None
Specific Gravity/bulk Density:	Bulk density 375-600 kg/m3
% Volatiles By Volume:	Not volatile
Boiling Point:	Not determined
% Solubility In Water:	2
pH:	(in mixture with water) 8.5

10. STABILITY & REACTIVITY

Hazardous Decomposition Products:	None known. Product is stable at service temperatures up to 1,100 °C
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

The International Agency for Research on Cancer (IARC) in Monograph 68 states: *There is sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica from occupational sources.*

12. ECOLOGICAL INFORMATION

Detailed studies on the environmental fate of the product have not been conducted. However, it is not expected that the product would present a hazard to aquatic and terrestrial flora and fauna.

13. DISPOSAL CONSIDERATIONS

This product is not classified as a hazardous waste under current EPA regulations. Disposal at an EPA-approved landfill is recommended. If product may be contaminated with other materials, testing, including TCLP, should be performed to determine the hazard characteristics .It is the user's responsibility to dispose of all wastes in accordance with local, state, and federal regulations.

14. TRANSPORTATION INFORMATIONS

These products do not present any shipping hazard. Protect products from damp during shipment. Avoid the creation of dust.

15. REGULATORY INFORMATION

This product is not subject to labelling regulations as it contains no hazardous substances in the sense of the Hazardous Substances Directive or the corresponding EU directives.