

MATERIAL SAFETY DATA SHEET

EARTHSHIELD

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Issued: 01/01/2020

Hazardous according to criteria of WorkSafe Australia

Identification

Product name: EARTHSHIELD
Other names: Silane/siloxane water repellent
Manufacturer's code: RPESDG
UN number: 1866
D.G. class: 3
Subsidiary risk: Not allocated
Hazchem code: 3(Y)
Poisons schedule no: 5
Package group: III

Use

Silane/siloxane water repellent sealer for earth buildings.

Physical properties

Appearance: Colourless mobile liquid with characteristic odour
Boiling point: ≥149 °C (as hydrocarbon solvent)
Vapour pressures (20 °C): <25 kPa (as hydrocarbon solvent)
Density (20 °C): ca. 0.84g/ml
Flash point: 31 °C
Flammability limits (%): LEL: 0.8, UEL: 6.0 (as hydrocarbon solvent)
Solubility in water: Insoluble in water

Other properties

Autoignition point: Not allocated
Vapour density (air=1): 4.8 (as hydrocarbon solvent)
pH: Not allocated
Viscosity (20 °C): Not allocated

Ingredients

Chemical entity	CAS number	Proportion
Alkylalkoxy silane/siloxane	n/a	<10%
Acrylic copolymer	n/a	<10%
Medium aliphatic hydrocarbon	64742-88-7	<50%
Light aromatic hydrocarbon	64742-95-6	<50%

Hazard categories: R65, S2, S23, S24, S45, S53, S62

Hazard Health Information

Health Effects:

To the best of our knowledge, the toxicity of this product has not been determined. However, individual ingredients may have adverse health effects. Therefore, this product should be handled under normal industrial hygiene measures accordingly.

Acute:

Swallowed:

The hydrocarbon solvents are classified as harmful if swallowed and an irritant (R65). Vomiting may cause the product to be aspirated in the lungs possibly resulting in chemical pneumonitis. Siloxane may hydrolyse in the gastrointestinal tract and produce methanol if swallowed.

Eye:

Liquid and vapour may cause moderate eye irritation.

Skin:

May cause moderate irritation. Prolonged or repeated exposure may cause defatting and drying of the skin resulting in irritant contact dermatitis.

Inhaled:

May cause irritation to the mucous membranes, nose, throat or respiratory tract resulting in possible headaches, dizziness, lack of coordination, nausea, and possibly loss of consciousness. The hydrocarbon solvents are harmful if inhaled. An aerosol mist of siloxane may cause lung damage if inhaled.

Chronic:

Hydrocarbon solvents may cause irritant contact dermatitis for repeated or prolonged contact. Other ingredients may cause respiratory irritation, liver and kidney damage or blood disorder.

First Aid:

Swallowed: If swallowed, do not induce vomiting. Immediately give a glass of water. Never give anything by mouth to an unconscious person. Get prompt medical attention or phone 131126 in Australia for help.

Eye: Flush eyes with large amounts of water for at least 15 minutes. Obtain medical attention.

Skin: Removed contaminated clothing and wash skin thoroughly. Wash clothing before reuse.

Inhaled: Remove affected victim from the exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek prompt medical advice.

First Aid Facilities: Provide eye baths and safety showers close to areas where splashing may occur.

Advice to Doctor: Treat symptomatically.

Precautions For Use

Exposure Standards: There is no data allocated for this product as a whole or for the hydrocarbon solvent used within the product. However, refined petroleum solvent mixtures yield an exposure standard of 480 mg/m³ (TWA). It is suggested that this figure be a general guide when limiting exposure.

Engineering Controls: Keep away from sources of ignition. Take precautionary measures against static discharges. Provide sufficient ventilation to control exposure levels. Use local exhaust ventilation at sources of air contamination.

Personal Protection: Wear chemical resistant safety glasses or goggles, impervious rubber gloves and protective clothing. Wear approved respiratory protection (AS1716/1715) if there is a risk of exposure to intensive vapour concentrations. Wash hands after handling and any contaminated clothing and protective equipment before storing or re-using.

Flammability: This product is a flammable liquid. Avoid heat and all ignition sources. Use only in well ventilated areas. Prevent build-up of flammable vapours. Product transfer and storage equipment must be earthed.

Safe Handling Information

Storage and Transport: The product is a flammable liquid. Consult AS1940 & relevant state or territory regulations on safe storage and handling. Store in cool well-ventilated area away from any heat and ignition sources. Containers should be kept closed in storage and properly labeled. Store only in original or approved containers preferably under 25°C away from direct sunlight.

Spills and disposal: Wear full protective clothing while attending to spills. Extinguish all ignition sources. Prevent entry into drainage systems, sewers and waterways. Dam and collect spills with inert absorbent material such as sand or earth. Ensure waste disposal conforms to local waste disposal regulations. Drain containers and allow drying with ventilation to remove liquid and vapour.

Fire/Explosion Hazard: This product is a flammable liquid. Vapours may form explosive mixtures with air. In the event of fire, shut and remove ignition sources if safe to do so. Use water spray to cool fire-exposed surface and any adjacent storage vessels. Use water fog to extinguish, or in the absence of water fog, a fine spray may be used. Use dry powder, sand, foam and carbon dioxide extinguisher. Wear a breathing apparatus, full protective clothing, boots and chemically impervious protective gloves while attending to hazard. Prevent the product from entering drains or waterways. Hazard decomposition products may include carbon oxides, silicone dioxide and traces of formaldehyde.

Other Information

Toxicity data: To the best of our knowledge, the toxicity of this product is not known. The aerosol mists of siloxane may cause lung damage. It may hydrolyse in the gastrointestinal tract and produce methanol and silanol or siloxanol which is harmful and irritant. Do not introduce large amounts of siloxane into purification plants, waterways and soil.

Contact Point

For further information please contact Tech-Dry tel: 61 3 9699 8202 (all hours).

Important Note

To the best of our knowledge, the information sources for the preparation of this document were correct and complete at the time of writing. The information is therefore subject to possible change from time to time and cannot be guaranteed. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product or any material existing within the product. For further information, please contact Tech-Dry Building Protection Systems Pty. Ltd.