VODAPRUF

MSDS

VPanel[®]

1. IDENTIFICATION OF SUBSTANCE

1.1. Identification of the Product

Name: VPANEL

Material Type: Concrete and Expanded Polystyrene

1.2.Usage

Prefabricated lightweight and waterproofing wall system that provides innovation and improvise current building construction method.

1.3. Details of the Company

Name: Vodapruf Pte Ltd

Address: 8B Admiralty Street, 08-12, 757440 Singapore.

Emergency Tel: +65-66355729 Email: inquiry@vodapruf.com

2. HAZARD INDICATIONS

2.1.Classification of the Preparation or Mixture

The present safety information data sheet is related to a preparation which has been classified as non-hazardous.

Dir. 67/548/CEE Classification: none

Regulation (CE) 1272/2008 (CLP) classification: not dangerous

2.2. Label's Elements: the mixture is not dangerous

Precautionary statements

P270 Do not eat, drink or smoke when using this product.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P501: Dispose of contents/container to conformity at the local regulation.

P262 Do not get in eyes, on skin, or on clothing

P281 Use personal protective equipment as required

2.3 Other

The product does not meet the criteria for PBT and vPvB in accordance with Annex XIII of REACH (Regulation 1907/2006/EC).

3. INFORMATION ON INGREDIENTS AND COMPOSITION

Ingredients

| Substance | Weight (Kg) | Proportion |
|---|----------------|------------|
| Blended Cement with type 2 Cement (GGBS) | 45 | 66% |
| Sand | 10 | 14.5% |
| Water | 12 | 17.5% |
| Ligtherm (EPS) | 1.5 | 2% |

• GGBS is a green product

4. MEDICAL AID INTERVENTIONS

4.1.General Indications

Do not give medicinal or use medical equipment if not under control of medical staff. In case of accident, the first aid must be followed by trained staff in order to avoid further complication. Personal protective equipment (PPE) are not necessary for rescuers, but they must avoid dust inhalation and the contact with humid or mixed product. If this is not possible, rescuers must adopt PPE listed in section 8.

Inhalation

Bring the injured worker to open air. Consult a doctor if irritation persists, if it appears again later, if you get a cough, hassles or other symptoms.

Contact with Skin

In case of skin contact, wash abundantly with water and neutral pH soap. Remove contaminated clothing and wash them accurately before using again. Consult a doctor in any case of irritation or burn injury.

Contact with Eyes

Do not rub your eyes. Verify that the injured worker does not wear contact lenses. If he does, remove lenses and wash immediately and abundantly his eyes with water for at least 20 minutes to remove all residues. If irritation persists, consult a doctor. Do not use creams or eye solutions before consulting a doctor or eye specialist.

Ingestion

Do not induce vomit. If the person is conscious, wash abundantly his oral cavity. Consult a doctor or a Poison Control Center immediately.

4.2. Main Acute and Delayed Symptoms and Effects

Eyes

Contact with eyes can cause irritations or injury

Skin

After a prolonged contact on humid or wet skin, it can have irritating effects or cause inflammation.

Inhalation

A prolonged inhalation of dust for a long time can enlarge the risk of emergence of lung diseases.

Ingestion

Not relevant

Environment

If in usual conditions, the product is not dangerous for the environment.

4.3. Indication for Eventual Need of Contacting a Doctor or Special Treatments See 4.1.: consign the present Safety Data Sheet.

5. FIRE MEASURES

The product is non-combustible, non-flammable, non-explosive.

5.1.Appropriate Extinguishing Means

Foam, water (best if atomized), pulverized chemicals or sand (for smaller fires).

Extinguishing means that should not be used for safety reasons:

None

Information about appropriate extinguishing means:

Not relevant

5.2. Particular Hazards of the Mixture:

None

5.3. Recommendations for Firefighters:

None

5.4. Fire resistant

4 hours

6. PROVISIONS IN CASE OF ACCIDENTAL DISPERSION

6.1. Safeguards for Persons, Protection Disposable and Emergency Procedure

Move all persons not involved in the emergency intervention away from the area concerned with the spill.

Wear mask, glasses, gloves and protective clothing.

Contain the leak if the operation does not entail risks.

Whenever possible, operate windward. Provide adequate ventilation of the premises concerned with the spill.

Avoid prolonged contact with skin and eyes and do not breathe dusts.

6.2. Environmental Safeguards

Contain the leaks with soil or sand. Plant design systems and operational procedures must be used to avoid that the product, if dissolved in water or other liquids, reaches the drainage system, wells or streams. If it does or or has contaminated the ground or vegetation, notify the competent authorities. Quickly collect the product wearing PPE. Contain the spreading and collect mechanically avoiding its dispersion. Then wash the contaminated area and materials with water.

6.3. References to Other Sections:

If necessary, see sections 8 and 13.

7. HANDLING AND STORAGE

7.1. Safe Handling

Always avoid contact with skin and eyes and a prolonged exposition to its dusts. During the work do not drink or eat.

7.2. Safe Storage

Keep the product away from water and humid places. Keep only in original, well-closed and labelled container. Stock in well-ventilated, dry and cool places where there is no direct sunlight. Keep out from children. Also consult section 10.

7.3. Particular Utilizations

None

8. EXPOSURE CONTROL - INDIVIDUAL PROTECTION

8.1. Exposure Controls

Individual protection measures, such as personal protective equipment:

Eye Protection / Face

Wear safety glasses or masks certified according to EN 166, when handling the product to prevent any contact with the eyes. Do not wear contact lenses.

Skin Protection

Wear shoes and / or safety boots and work clothing (long sleeve and leg) as well as products for skin care (including moisturizers) to ensure maximum protection from dermal prolonged contact with the wet mixture.

Hand Protection

Use protective gloves sealed, resistant to abrasion and alkalis, certified according to EN 374-parts 1,2,3.

Respiratory Protection

Where an employee will be exposed to a concentration of respirable particulate matter above the exposure limit, use appropriate respiratory protection devices, such as filtering face (FFP) certified according to EN 149 or dust masks (FMP) certified according to EN 140, EN 14387 and EN 1827.

Information and General Measures: General Advices

The workplace must be adequately ventilated. If necessary, install the appropriate sources of effective local exhaust ventilation or air exchange systems. If you can not make use of appropriate respiratory protection.

General Measures and Information: General Advices

PROFESSIONAL EXPOSURE LIMITS: following are the Professional Exposure Limits reported for the single substances which constitute the preparation and which are mentioned in point 2 of the safety information data sheet.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Aspect: Physical State | Solid |
|--|--------------------------------|
| Appearance | Grey colour |
| Smell | Odourless |
| рН | not applicable data |
| Boiling/Interval Point (at atmospheric pressure) | not applicable data |
| Softening Point | not applicable data |
| Inflammability (solid, gas) | not applicable data |
| Ignition point | not applicable data |
| Explosive Properties: explosion limit (in % of air volume): lower limit | not applicable data |
| Explosive Properties: explosion limit (in % of air volume): higher limit | not applicable data |
| Combustive Properties | not applicable data |
| Vapour Pressure | not applicable data |
| Relative Density | 250-1500kg/m3 |
| Vapour Density (air = 1) | not applicable data |
| Hydro solubility | Insoluble |
| Solubility in fat and/or in organic solvents | Insoluble |
| Log n-octanol/water partition coefficient | not applicable data |
| Other Data | Viscosity: not applicable data |
| | |

10. STABILITY AND REACTIVITY

10.1. Reactivity

It could emit styrene and its products of oxidation. The dry product is chemically stable.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of Hazardous Reactions

N/A

10.4. Conditions to Avoid:

The presence of humidity or solar radiation during storage can cause the loss of product's quality.

10.5. Incompatible Materials

Unknown

10.6. Dangerous Decomposition Products

None

11. TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

Concretes product in their intact sate and as delivered do not release airborne dusts, but crystalline silica (quartz) dust may be produced during cutting, drilling, grinding, chasing and other machining of the product. Concrete dust contains crystalline silica, and repeated inhalation of crystalline silica may cause serious illness.

11.2. Acute Toxicity by the Oral, Dermal and Inhalation

No experimental value available or relevant for the substances that make up the present and prepared to step 3 of the sheet.

11.3. Corrosive and / or Irritating to Skin, Eyes and Respiratory Tract

The mixture is classified as non-dangerous.

11.4. Sensitization

It has not been shown any sensitizing power of the mixture.

11.5. Long-term Toxicity (Subacute, Subchronic, Chronic)

It is believed that the mixture does not have potential or proven effects following prolonged exposure.

11.6. Carcinogenesis, Mutagenesis and Reproductive Toxicity (Fertility and Development)

It is believed that the mixture does not have potential or proven carcinogenic to humans.

It is believed that the mixture does not have potential or proven mutagenic effects in humans.

It is believed that the mixture does not have potential or proven reproductive toxicity effects in humans.

11.7. Exposure

The potential routes of exposure are skin and eye contact.

Use according to good working practices.

12. ENVIORNMENTAL INFORMATION

12.1. Toxicity

Eco toxicological data are not available on the mixture as a whole. The product is not dangerous for the environment. There is no indication of toxicity in the sediment phase.

In the case of dispersion of large quantities of product in water, due to the resulting increase in the pH, there could be possible effects of eco-toxicity to aquatic life, in certain circumstances.

12.2. Persistence and Degradability

Not relevant. After curing, the product does not pose a risk of toxicity

12.3. Potential for Bioaccumulation

Not relevant. After curing, the product does not pose a risk of toxicity

12.4. Mobility in Soil

Not relevant. After curing, the product does not pose a risk of toxicity

12.5. Results of PBT and vPvB Assessment

Not relevant. After curing, the product does not pose a risk of toxicity

12.6. Other Adverse Effects

Not relevant.

13. REMARKS ON DISPOSAL

13.1. Methods of Treatment of the Waste

For handling measures in case of accidental waste material dispersion, the general indications provided in points 6 and 7 are valid in general; nevertheless caution and specific actions in relation to the composition of the waste material must be evaluated. The product and its mixes, classified as non dangerous, do not show particular risks for an eventual disposal, if you just take care of avoiding discharge or dispersion into sewers, drains or water courses. Also empty packages must be handled according to the regulations in force about non-dangerous products. Cautions and specific actions must be evaluated in relation to the composition of the waste material. Act in accordance with actual local and national regulation/dispositions.

14. INFORMATION ABOUT TRANSPORTATION

Dangerous for transport by road - ADR NO

The product does not fall within any class of danger for the transport of dangerous goods and is not, therefore, subject to its modal regulations: IMDG [by sea], ADR [road], RID [rail] ICAO / IATA [by air]. During transportation, avoid the wind dispersal by using closed containers.

15. OTHER INFORMATION

Issued By:

Vodapruf Pte. Ltd.

| Warranty: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. | | | | |
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