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Hours Fire Resistance

COMPANY DETAILS

Company Name WARWICK BUILDING MATERIAL LIMITED
 Address Flat/Rm202, 2/F, On Tai Industrial CTR,
 4 On Chuen Street, Fanling, Hong Kong
 Tel/Fax Tel: (852) 2156 9796 Fax: (852) 2156 9798

IDENTIFICATION

Product Name TANDA AP-25
 Other Names Not Available
 Product Use Passive Fire Protection coating used in building construction. Material is mixed and used in accordance with manufacturers directions. Application is by pressure spraying or hand trowelling and rendering of walls, ceilings, beams and columns.

PHYSICAL DATA

Appearance Off-white powder with off-white granules. Sets and hardens when mixed with water. Slightly soluble in water and in acids. Free of asbestos and other fibrogenic material.
 Melting Point Not available
 Boiling Point Not applicable
 Vapor Pressure Negligible
 Specific Gravity Not available
 Flash Point Not applicable
 Flamm. Limit LEL Not applicable
 Explosion Data Not applicable

OTHER PROPERTIES

Form	Solid		
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Vermiculite (exfoliated, asbestos and silica free)	1318-00-9	30.00-80.00%
	Plaster as Calcium sulfate hemihydrate Foaming agent	10034-76-1	10.00-60.00% 0-10.00%

HEALTH HAZARD INFORMATION

Health Effects

Acute-Ingestion Considered an unlikely route of entry in commercial/industrial environments. The dust is irritating to the gastro-intestinal tract.
 Acute-Eye The dust is irritating and may be abrasive to the eyes.
 Acute-Skin The material may be irritating and slightly abrasive to the skin if exposure is prolonged. Brief contact is unlikely to result in irritation.
 Acute - Inhalation The dust is irritating to the upper respiratory tract and lungs and may be harmful from repeated exposures over long periods. Long term exposure to high dust concentrations may cause changes in lung function, i.e. Pneumoconiosis; caused by particles less than 0.5 micron penetrating and remaining in the lung. Prime symptom is breathlessness; lung shadows show on x-ray.
 Chronic Principal routes of exposure are usually by inhalation of dust and skin/eye contact. As with any chemical product, contact with unprotected bare skin; inhalation of vapour, mist or dust in work place atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.

FIRST AID

Ingestion	DO NOT induce vomiting. Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. Becoming unconscious. Give water (or milk) to rinse out mouth. Then provide liquid slowly and as much as casualty can comfortably drink. Seek medical advice.
Eye	If this product comes in contact with the eyes. Immediately hold the eyes open and wash with fresh running water. Ensure irrigation under the eyelids by occasionally lifting upper and lower lids. If pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin	If product comes in contact with the skin: Wash affected areas thoroughly with water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If dust is inhaled, remove to fresh air. Encourage patient to blow nose to ensure clear breathing passages. Rinse mouth with water. Consider drinking water to remove dust from throat. If irritation or discomfort persists seek medical attention.

ADVICE TO DOCTOR

Advice to Doctor Treat symptomatically

PRECAUTIONS FOR USE

Exposure Limits	<u>Name</u>	TWA <u>mg/m3</u> <u>ppm</u>
	vermiculite (exfoliated, asbestos and silica free)	2.5
Other Exposure Info.	None assigned for mixture. Refer to individual constituents. <Vermiculite> vermiculite, containing no asbestos, as mica: TLV TWA 3mg/m3 respirable dust. The concentration of respirable dust for application of this limit is to be determined from the fraction that penetrates a separator whose size collection efficiency is described by a cumulative lognormal function with a median aerodynamic volume of 4.0 um (+-) 0.3 um and with a geometric standard deviation of 1.5 um (+-) 0.1 um, i.e., Less than 5 um. ES TWA: 2.5 mg/m3 inspirable dust (under review)<calcium sulfate hemihydrate> containing no asbestos and <1% crystalline silica: TLV TWA: 10mg/m3 total dust ES TWA: 10 mg/m3 inspirable dust	
Engineering Controls	General exhaust is adequate under normal operating conditions. If Risk of over exposure exists, wear SAA approved dust respirator. Correct fit is essential to obtain adequate protection.	
Personal Protection Protective Equipment	EYE: Safety glasses with side shields. Contact lenses pose a special hazard. Soft lenses may absorb irritants and all contact lenses concentrate them. HANDS/FEET: wear physical protective gloves, e.g., Leather. Wear safety footwear. OTHERS: Overalls, barrier cream, eye wash unit. The local concentration of material, quantity and conditions of use determine the type of personal protective equipment required. For further information consult your Occupational Health & Safety Advisor.	
Flammability Fire Hazards	Non Combustible material. Not considered to be a significant fire risk, however in a fire containers may decompose on heating and produce toxic/corrosive fumes of sulfuroxides (SOx) and Calcium oxide.	

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Building Material Limited

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May 2008

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SAFE HANDLING INFORMATION

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Storage and Transport

Storage Precautions SUITABLE CONTAINER Multi ply paper bag with sealed plastic liner or heavy gauge plastic bag. Check that all containers are clearly labelled and free from leaks. Packing as recommended by manufacturer. STORAGE INCOMPATIBILITY None known. STORAGE REQUIREMENT Keep dry. Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storing and handling recommendations. TRANSPORTATION No restrictions.

Spills and Disposal

Spills and Leaks MINOR SPILLS Clean up all spills immediately. Avoid contact with skin and eyes. Wear impervious gloves and safety glasses. Use dry clean up procedures and avoid generating dust. Vacuum up or sweep up. Place spilled material in clean, dry, sealable labelled container. MAJOR SPILLS Minor hazard. Clear area of personnel and move up wind. Alert Fire Brigade and tell them location and nature of hazard. Control persona contact by using protective equipment and dust respirator if risk of overexposure exists. Prevent, by any means available, spillage from entering drains or water courses. Recover product wherever possible. Avoid generating dust. If required, wet with water to prevent dusting. Vacuum/shovel up. Put residues in labelled plastic bags or other containers for disposal. Wash area down with large quantities of water and prevent runoff into drains or waterways. If contamination of drains or waterways occurs, advise emergency services. DISPOSAL Recycle wherever possible. Consult manufacturer for recycling options. Consult State Land Waste Management Authority for disposal. Bury residue in an authorised landfill.

Fire/Explosion Hazard

Fire/Explos. Hazards Non Combustible material. Not considered to be a significant fire risk, however in a fire containers may decompose on heating and produce toxic/corroosive fumes of sulfuroxides (Sox) and Calcium oxide.

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