

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	MAGNA-PATCH
Manufacturer's Product Code	4784
Other Names	Concrete repairing and anchoring compound.
Major Recommended Uses	For quick repairing and rebuilding of concrete, and for anchoring to all types of concrete and steel.
Supplier's Details	Mantek 7 Ralph Street, Alexandria Sydney NSW 2015 Telephone Number (Office Hours): (02) 9669 0261 Fax Number: (02) 9693 1562 Emergency Telephone Number: (02) 9214 0755
Date of Issue	JUNE 2009

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification	Classified as hazardous according to the criteria of NOHSC.
Dangerous Goods Class & Sub-risk	None allocated.
Poisons Schedule	None allocated.
Risk Phrases	Irritating to eyes, respiratory system and skin.
Safety Phrases	Do not breathe dust. Use only in well ventilated areas.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients		
Part A - Aggregate		
Chemical Entity	CAS No	Proportion
Quartz	14808-60-7	>60%
Magnesium silica	1309-48-4	10-30%
(These substances are listed in the Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003] as Hazardous according to Worksafe Australia criteria, but this hazard is concerned with atmospheric contamination. That is, a solid or liquid does not necessarily present a hazard because of this listing. The standards for occupational exposure are concerned with concentrations of substances in the atmosphere of gases, vapours, fumes, mists, aerosols and the like.)		
Part B – Hardener/primer		
'Ingredients determined not to be hazardous'		to 100%

SECTION 4 – FIRST AID MEASURES

Skin	Wash affected areas with soap and running water for several minutes. Seek medical attention if irritation develops.
Eye	Rinse the eyes with water for several minutes, including under the eyelids. Seek medical attention if irritation develops.
Inhalation	Remove victim to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion	If swallowed do not induce vomiting. Give water, and give water again if vomiting occurs. Seek medical attention if discomfort occurs.
First Aid Facilities	Eye wash station and normal washroom facilities.
Advice to Doctor	Treat the patient symptomatically.
Additional Information	Medical conditions aggravated by exposure to the unmixed aggregate are pre-existing respiratory conditions such as asthma, emphysema and bronchitis. Target organs: lungs. Primary route of entry is inhalation.

SECTION 5 – FIRE FIGHTING MEASURES SECTION 5 – FIRE FIGHTING MEASURES

Product is non-flammable.	
Suitable Extinguishing Media	Use foam, dry chemical, CO2 or water spray to extinguish fire. Extinguishing media should be chosen based on the nature of the surrounding fire.
Special Protective Equipment and Precautions for Fire Fighters	Fire fighters should wear self-contained breathing apparatus and full protective gear.

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Fire/Explosive Hazards	Use water spray to cool fire exposed containers to prevent bursting. If heated to the point of decomposition, ammonia, oxides of phosphorus, fumes of silica, and magnesium oxides may be produced.
Hazchem Code	None allocated.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Methods and Materials for Containment and Clean Up	Due to the nature of the product packaging, a large spill is unlikely. Sweep or vacuum up spills of aggregate, taking care not to create dust. Absorb liquid spills with an inert material and scoop up, disposing of waste in a closed, labelled container in accordance with EPA, local, state and Commonwealth regulations. Wear appropriate protective clothing (See Section 8).
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SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling	Avoid creating dust when handling. Observe precautions stated on product label, and follow industry safety regulations. Smoking, eating and drinking should be prohibited in work areas. Always wash thoroughly after contact with the product and before eating, drinking or using toilet facilities.
Conditions for Safe Storage	Store at moderate temperatures in closed containers. Keep aggregate dry.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards	There is no specific information on this product. The recommended exposure standards for individual components are: Quartz: - TLV, TWA 0.1 mg/m ³ Magnesium oxide: - TLV TWA 10 mg/m ³
Engineering Controls	General ventilation is adequate for normal use of this product. If risk of dust exposure exists however, wear an Australian Standard approved dust respirator.
Personal Protective Equipment	Eye/Face Protection: Safety glasses should be worn if eye contact is likely. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337- Eye Protectors for Industrial Applications.
Eye/Face Protection	If splashing is likely/possible, chemical goggles or a face shield should be worn. AS1336 and AS/NZS1337 –'Eye Protectors for Industrial Applications' should be consulted for information on eye protection.
Skin Protection	Wear appropriate impervious rubber or plastic gloves if repeated or prolonged skin contact is likely. Reference should be made to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance. Wear general duty work clothing and shoes.
Respiratory Protection	Whilst not normally required during normal application, respiratory protective equipment for dusts (P1 particulate filter) should be worn if needed to prevent inhalation of dust whilst mixing, or during cutting, grinding or sanding operations that generate dust. Reference should be made to AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices and AS/NZS 1716, Respiratory Protective Devices.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Part A – gray, opaque granular solid; Part B – Green, transparent, non-viscous liquid.
pH (100% solution)	Part A: Not applicable; Part B: 5.7 – 6.2
Vapour Pressure	Part A: Not applicable; Part B: <1mm Hg
Vapour Density	Part A: Not applicable; Part B: 16 (Air = 1)
Boiling Point	Part A: Not applicable; Part B: 105°C

Melting Point	Not applicable
Solubility in Water (g/L)	Part A: Negligible; Part B: Complete.
Specific Gravity	Part A: 2.69; Part B: 1.39
Flashpoint	Non-flammable
% Volatiles by Volume	Part A: 0; Part B: 41
Evaporation Rate:	Part A: Not applicable; Part B: <1 (Butyl acetate = 1)
Flammability Limits (%)	LEL – Not applicable; UEL – Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability	Stable.
Hazardous Polymerisation	Will not occur.
Conditions/Materials to Avoid	Storage in wet areas. The uncured material should be kept away from strong oxidisers such as chlorine bleach or peroxides; strong acids; zinc; copper.
Hazardous Decomposition Products	If heated to the point of decomposition, ammonia, oxides of phosphorus, fumes of silica, and magnesium oxides may be produced.

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SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute - Swallowed	Large amounts of the hardener/primer may cause diarrhoea and excessive urination.
Acute - Eye	Aggregate may cause mechanical irritation with redness and tearing. Liquid hardener/primer may cause irritation with redness and tearing.
Acute - Skin	Aggregate may cause mild irritation to sensitive individuals.
Acute - Inhaled	Excessive inhalation of aggregate dust may cause respiratory irritation with breathlessness, coughing and wheezing. Mists of the hardener/primer may cause respiratory irritation with coughing and sneezing.
Chronic	Repeated or prolonged inhalation of quartz may cause silicosis, a form of lung fibrosis. Progressive massive fibrosis may be accompanied by heart enlargement and heart and pulmonary failure. Chronic exposure to fine dust must be prevented to avoid risk of lung diseases; smoking aggravates the effects of exposure. This hazard is only a potential when handling the unmixed aggregate or when sanding the finished product.
Target Organs	Lungs.

SECTION 12 – ECOLOGICAL INFORMATION

No specific toxicology data on this product is available. When used as indicated, no adverse environmental effects are foreseen. No acute toxicity or long term adverse effects to aquatic organisms is expected. The product is not known to be ecotoxic - there is no data which suggests toxicity to birds, fish, invertebrates, micro-organisms or plants. No biological limit allocated.	
Persistence/Degradability	This substance is not degradable. It is biologically and chemically inert.
Mobility	Insoluble in water when mixed. The aggregate component alone also has negligible solubility in water.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of waste in a closed, labelled container in accordance with EPA, local, state and Commonwealth laws.

SECTION 14 – TRANSPORT INFORMATION

UN Number	None allocated.
UN Proper Shipping Name	None allocated.
Transport Hazard Class	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
Packaging Group	None allocated.
Hazchem Code	None allocated.

SECTION 15 - REGULATORY INFORMATION

Poisons Schedule	None allocated.s
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SECTION 16 – OTHER INFORMATION

Initial copy of MSDS.

Since the user's working conditions are not known by the supplier, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The product must not be used for any purposes other than those specified in Section 1 without first obtaining written handling instructions. MANTEK assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such non-recommended use, storage or disposal of the product.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

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