

## MasterMatrix 220

Version 1.1      Revision Date: 22.04.2026      SDS Number: 000000862634      Date of last issue: 06.02.2023  
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### SECTION 1: IDENTIFICATION

Product name : MasterMatrix 220  
Product code : 000000000050560813

#### Manufacturer or supplier's details

Company : MB Solutions Australia Pty Ltd  
Address : Suite 102, 2 Burbank Place  
Norwest NSW 2153  
Telephone : +611300227300  
Emergency telephone number : ChemTel: +1-813-248-0585; Australia: 1-300-954-583

#### Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals


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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification

Serious eye damage/eye irritation : Category 2B  
Carcinogenicity : Category 2  
Specific target organ toxicity - repeated exposure (Inhalation) : Category 2

#### GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H320 Causes eye irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe dust.  
P264 Wash skin thoroughly after handling.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

**Response:**

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical nature :

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Palygorskite ([Mg(Al <sub>0.5</sub> -1Fe <sub>0-0.5</sub> )]Si <sub>4</sub> (OH)O <sub>10</sub> .4H <sub>2</sub> O)	12174-11-7	>= 30 -< 60
crystalline silica	14808-60-7	>= 10 -< 30

**SECTION 4. FIRST AID MEASURES**

General advice	:	First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
If inhaled	:	Keep patient calm, remove to fresh air. If symptoms persist, seek medical advice.
In case of skin contact	:	After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.
In case of eye contact	:	Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.
If swallowed	:	Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

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Most important symptoms and effects, both acute and delayed : Causes eye irritation.  
Suspected of causing cancer.  
May cause damage to organs through prolonged or repeated exposure if inhaled.

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### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Foam  
Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : water jet

Hazardous combustion products : fumes/smoke  
harmful vapours  
Carbon oxides  
nitrogen oxides  
carbon black

Specific extinguishing methods : The degree of risk is governed by the burning substance and the fire conditions.  
If exposed to fire, keep containers cool by spraying with water.  
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.

Special protective equipment for firefighters : Wear a self-contained breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
Wear eye/face protection.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions : Contain contaminated water/firefighting water.  
Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Pick up with suitable appliance and dispose of.  
Dispose of absorbed material in accordance with regulations.

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### SECTION 7. HANDLING AND STORAGE

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- Advice on protection against fire and explosion : The product is neither self-ignitable, nor an explosion hazard, nor does it promote fires.
- Advice on safe handling : Avoid inhalation of dusts/mists/vapours.  
Avoid skin contact.  
Ensure adequate ventilation.  
No special measures necessary provided product is used correctly.
- Hygiene measures : When using, do not eat, drink or smoke.  
Hands and/or face should be washed before breaks and at the end of the shift.  
At the end of the shift the skin should be cleaned and skin-care agents applied.  
Gloves must be inspected regularly and prior to each use.  
Replace if necessary (e.g. pinhole leaks).
- Further information on storage conditions : Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame.  
Protect from direct sunlight.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
crystalline silica	14808-60-7	TWA (Respirable dust)	0,05 mg/m <sup>3</sup>	AU OEL
Further information: Category 1A (Carc. 1A) Known to have carcinogenic potential for humans				
		TWA (Respirable particulate matter)	0,025 mg/m <sup>3</sup> (Silica)	ACGIH

## Personal protective equipment

Respiratory protection : Wear respiratory protection if ventilation is inadequate.  
Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): butyl rubber (butyl) - 0.7 mm coating thickness nitrile rubber (NBR) - 0.4 mm coat-

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ing thickness chloroprene rubber (CR) - 0.5 mm coating thickness Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Safety glasses with side-shields (frame goggles) (e.g. EN ISO 16321)

Skin and body protection : Body protection must be chosen based on level of activity and exposure.

Protective measures : Do not inhale dust/fumes/aerosols.  
Avoid contact with the skin, eyes and clothing.  
Avoid exposure.  
Handle in accordance with good building materials hygiene and safety practice.  
Wearing of closed work clothing is recommended.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white to grey

Odour : characteristic

Odour Threshold : not determined

pH : 7,50 - 9,50

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Self-ignition : not self-igniting

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

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Relative density : No data available

Density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : not applicable for mixtures

Auto-ignition temperature : No data available

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : not fire-propagating

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability : The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions : The product is stable if stored and handled as prescribed/indicated.

Conditions to avoid : See SDS section 7 - Handling and storage.

Incompatible materials : Strong acids  
Strong bases  
Strong oxidizing agents  
Strong reducing agents

Hazardous decomposition products : No hazardous decomposition products if stored and handled as prescribed/indicated.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified due to lack of data.

#### Skin corrosion/irritation

Not classified due to lack of data.

#### Serious eye damage/eye irritation

Causes eye irritation.

#### Respiratory or skin sensitisation

##### Skin sensitisation

Not classified due to lack of data.

##### Respiratory sensitisation

Not classified due to lack of data.

#### Chronic toxicity

##### Germ cell mutagenicity

Not classified due to lack of data.

##### Carcinogenicity

Suspected of causing cancer.

##### Reproductive toxicity

Not classified due to lack of data.

##### STOT - single exposure

Not classified due to lack of data.

##### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled.

##### Aspiration toxicity

Not classified due to lack of data.

#### Further information

##### Product:

Remarks : Health injuries are not known or expected under normal use.  
No data is available on the product itself.  
Information given is based on data on the components and the toxicology of similar products.

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### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

#### Ecotoxicology Assessment

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Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**Persistence and degradability****Product:**

Biodegradability : Remarks: Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available.  
Discharge into the environment must be avoided.

**Components:****Palygorskite ([Mg(Al<sub>0.5</sub>-1Fe<sub>0-0.5</sub>)]Si<sub>4</sub>(OH)O<sub>10</sub>.4H<sub>2</sub>O):**

Partition coefficient: n-octanol/water : Remarks: Not applicable

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Results of PBT and vPvB assessment : Remarks: The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging : Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Environmentally hazardous	:	no

**IATA-DGR**

Not regulated as a dangerous good

UN/ID No.	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
Packing instruction (cargo aircraft)	:	Not applicable
Packing instruction (passenger aircraft)	:	Not applicable

**IMDG-Code**

Not regulated as a dangerous good

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable
EmS Code	:	Not applicable
Marine pollutant	:	Not applicable

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****Special precautions for user**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not Scheduled

Prohibition/Licensing Requirements : crystalline silica  
Refer to model WHS Act and Regu-

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lations for prohibition, authorisation and restricted use.

**The components of this product are reported in the following inventories:**

AIIC : On the inventory, or in compliance with the inventory

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**SECTION 16: ANY OTHER RELEVANT INFORMATION**

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**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.

ACGIH / TWA : 8-hour, time-weighted average  
 AU OEL / TWA : Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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