

# SAFETY DATA SHEET

## MasterCrete WR 501 (formerly MasterSeal 501)

Version 1.0      Revision Date: 21.12.2023      SDS Number: 000000545573      Date of last issue: -  
Date of first issue: 21.12.2023

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### SECTION 1: IDENTIFICATION

Product name : MasterCrete WR 501 (formerly MasterSeal 501)  
Product code : 000000000050510918

#### Manufacturer or supplier's details

Company : MB Solutions Australia Pty Ltd  
Address : 11 Stanton Road, Seven Hills  
NSW 2147  
Telephone : +611300227300  
Emergency telephone : 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

Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 1  
Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

#### GHS label elements

Hazard pictograms : 

Signal Word : Danger

Hazard Statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary Statements : **Prevention:**  
P261 Avoid breathing dust.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

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**Response:**

P302 + P352 IF ON SKIN: Wash with plenty of water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

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 : modified cement mortar

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Cement, portland, chemicals	65997-15-1	>= 30 -< 60
crystalline silica	14808-60-7	>= 10 -< 30
sodium carbonate	497-19-8	>= 10 -< 30
Fumes, silica	69012-64-2	< 10
Limestone	1317-65-3	< 10
(+/-)-tartaric acid	133-37-9	>= 3 -< 5
Sulfuric acid, calcium salt (1:1)	10101-41-4	< 10

**SECTION 4. FIRST AID MEASURES**

General advice : First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled : After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur:

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- Seek medical attention.
- 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.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.
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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Water spray  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)  
Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agents normally used are sufficient.
- Unsuitable extinguishing media : water jet
- Specific hazards during fire fighting : Product is not combustible or explosive.  
No particular hazards known.
- Specific extinguishing methods : Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.  
The degree of risk is governed by the burning substance and the fire conditions.  
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
- Special protective equipment for fire-fighters : Wear a self-contained breathing apparatus.
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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.  
Avoid contact with skin and eyes.  
Use personal protective clothing.  
Handle in accordance with good building materials hygiene
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and safety practice.

Environmental precautions : Do not discharge into drains/surface waters/groundwater.

Methods and materials for containment and cleaning up : Sweep/shovel up.  
Keep in suitable, closed containers for disposal.

**SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion : No special precautions necessary.

Advice on safe handling : Avoid dust formation.  
Avoid inhalation of dusts.  
Avoid contact with skin and eyes.  
The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Pour downwind and allow as little free fall as possible while emptying bags into equipment.  
Breathing must be protected when large quantities are decanted without local exhaust ventilation.

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).  
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.

Further information on storage conditions : Containers should be stored tightly sealed in a dry place.

Recommended storage temperature : < 45 °C

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**
**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Cement, portland, chemicals	65997-15-1	TWA	10 mg/m <sup>3</sup>	AU OEL
		TWA (Respirable par-	1 mg/m <sup>3</sup>	ACGIH

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		ticulate matter)		
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
Fumes, silica	69012-64-2	TWA (Respirable dust)	2 mg/m <sup>3</sup>	AU OEL
Limestone	1317-65-3	TWA	10 mg/m <sup>3</sup> (Calcium carbonate)	AU OEL
Sulfuric acid, calcium salt (1:1)	10101-41-4	TWA	10 mg/m <sup>3</sup>	AU OEL
		TWA (Inhalable particulate matter)	10 mg/m <sup>3</sup> (Calcium)	ACGIH

**Personal protective equipment**

- Respiratory protection : Breathing protection if dusts are formed.
- Filter type : Particle filter with medium efficiency for solid and liquid particles (e.g. EN 143 or 149, Type P2 or FFP2)
- Hand protection
- Remarks : nitrile coated cotton gloves (e.g. EN 388, 374)
- Eye protection : Safety glasses with side-shields.
- Skin and body protection : Body protection must be chosen based on level of activity and exposure.  
light protective clothing
- Protective measures : Avoid contact with the skin, eyes and clothing.  
Avoid inhalation of dusts.  
In order to prevent contamination while handling, closed working clothes and working gloves should be used.  
Handle in accordance with good building materials hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance : powder
- Color : white to grey

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Odor : characteristic

Odor Threshold : Not determined due to potential health hazard by inhalation.

pH : approx. 12 - 13 (20 °C)  
(as aqueous suspension)

Melting temperature : > 1.000 °C

Flash point : > 100 °C

Evaporation rate : No data available

Flammability (solid, gas) : not flammable

Upper explosion limit / Upper flammability limit : As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Lower explosion limit / Lower flammability limit : As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

Relative density : No data available

Bulk density : approx. 1.500 - 2.000 kg/m<sup>3</sup> (23 °C)

Solubility(ies)  
Water solubility : dispersible (20 °C)  
Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

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

Viscosity  
Viscosity, kinematic : No data available

Explosive properties : Not explosive  
Not explosive

Oxidizing properties : not fire-propagating

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Self-heating substances : It is not a substance capable of spontaneous heating.

Metal corrosion rate : No corrosive effect on metal.

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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 bases  
Strong acids

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**

Causes skin irritation.

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Respiratory or skin sensitization**

#### **Skin sensitization**

Not classified due to lack of data.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Product:**

Remarks : Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

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**Chronic toxicity****Germ cell mutagenicity**

Not classified due to lack of data.

**Carcinogenicity**

Not classified due to lack of data.

**Reproductive toxicity**

Not classified due to lack of data.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure**

Not classified due to lack of data.

**Aspiration toxicity**

Not classified due to lack of data.

**Further information****Product:**

Remarks : Health injuries are not known or expected under normal use. The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:****Ecotoxicology Assessment**

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: Not applicable for inorganic substances.

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

Bioaccumulation : Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.

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**Mobility in soil**
**Product:**

Distribution among environmental compartments : Remarks: Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.  
The substance will not evaporate into the atmosphere from the water surface.

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

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 : Completely emptied packagings can be given for recycling.

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

UN number : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable

**IATA-DGR**

UN/ID No. : Not applicable  
 Proper shipping name : Not applicable  
 Class : Not applicable  
 Subsidiary risk : Not applicable  
 Packing group : Not applicable  
 Labels : Not applicable

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Packing instruction (cargo aircraft) : Not applicable

Packing instruction (passenger aircraft) : Not applicable

**IMDG-Code**

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.

**Domestic regulation**
**ASIA\_ROAD**

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

Hazchem Code : Not applicable

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**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

**The ingredients 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**

Revision Date : 21.12.2023

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

AU OEL : Australia. Workplace Exposure Standards for Airborne Con-

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taminants.

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 Harmonized 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 Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; 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; 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 - Organization 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; TECl - 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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