

SAFETY DATA SHEET

MasterCrete CI 5488 (formerly MasterEmaco S 488CI)

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	25.04.2023	000000340418	Date of first issue: 25.04.2023

Section 1: Identification

Product name : MasterCrete CI 5488 (formerly MasterEmaco S 488CI)

Product code : 000000000050642231

Manufacturer or supplier's details

Company : MB Solutions New Zealand Ltd

Address : 45C William Pickering Drive, Albany, Auckland
NEW ZEALAND

Telephone : +64 9414 7233

Emergency telephone : ChemTel: +1-813-248-0585; New Zealand: 0800 001 607

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals

Section 2: Hazard identification


GHS Classification

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 1

Specific target organ toxicity - single exposure : Category 3 (respiratory tract irritation)

GHS label elements

Hazard pictograms : 

Signal Word : Danger

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

Precautionary Statements : **Prevention:**
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust.

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P264 Wash face, hands and any exposed skin thoroughly after handling.

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.

P310 Immediately call a POISON CENTER or doctor/ physician.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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 appropriate hazardous waste collection point.

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)
calcium oxide	1305-78-8	>= 1 -< 3
Cement, portland, chemicals	65997-15-1	>= 25 -< 50

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:
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.

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- 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.
- Notes to physician : Treat symptomatically.

Section 5: Fire-fighting measures

- Suitable extinguishing media : Foam
Water spray
Dry powder
Carbon dioxide (CO₂)
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.

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 and safety practice.
- Environmental precautions : Do not discharge into drains/surface waters/groundwater.

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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.

Section 8: Exposure controls/personal protection
Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium oxide	1305-78-8	WES-TWA	2 mg/m ³	NZ OEL
		TWA	2 mg/m ³	ACGIH
Gypsum (Ca(SO ₄).2H ₂ O)	13397-24-5	WES-TWA	10 mg/m ³	NZ OEL
		TWA (Inhalable particulate matter)	10 mg/m ³ (Calcium)	ACGIH
Cement, portland, chemicals	65997-15-1	WES-TWA	3 mg/m ³	NZ OEL
	Further information: Skin sensitizer			
		WES-TWA (Respirable dust)	1 mg/m ³	NZ OEL

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Further information: Skin sensitizer				
		TWA (Respirable particulate matter)	1 mg/m3	ACGIH
Fumes, silica	69012-64-2	WES-TWA (Respirable dust)	2 mg/m3	NZ OEL
crystalline silica	14808-60-7	WES-TWA (Respirable dust)	0.05 mg/m3	NZ OEL
Further information: Confirmed carcinogen				
		TWA (Respirable particulate matter)	0.025 mg/m3 (Silica)	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 : Tightly fitting safety goggles (splash goggles) (e.g. EN 166)
- 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 : gray
- Odor : characteristic
- Odor Threshold : Not determined due to potential health hazard by inhalation.

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pH	:	>= 11 (20 °C) slightly soluble
Melting point/freezing point	:	No data available
Boiling point	:	Not applicable
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	not flammable
Self-ignition	:	not self-igniting
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapor pressure	:	Not applicable
Relative density	:	No data available
Density	:	2.7 g/cm ³ (20 °C) Not applicable
Bulk density	:	1,800 - 2,200 kg/m ³
Solubility(ies)		
Water solubility	:	slightly soluble
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, dynamic	:	Not applicable
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	not fire-propagating
Self-heating substances	:	It is not a substance capable of spontaneous heating.

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Metal corrosion rate : No corrosive effect on metal.

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.

Section 11: Toxicological information

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

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

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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Reproductive toxicity

Not classified based on available information.

STOT-single exposure

May cause respiratory tract irritation.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

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.

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.

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.

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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. |

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. |

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 |
| 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 |

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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

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.

A certified handler is not required for the handling of this substance.
Tracking requirements do not apply to this substance.

The ingredients of this product are reported in the following inventories:

NZIoC	:	On the inventory, or in compliance with the inventory
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Section 16: Other information

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Date format	:	dd.mm.yyyy
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Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	:	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants

ACGIH / TWA	:	8-hour, time-weighted average
NZ OEL / WES-TWA	:	Workplace 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

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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; 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

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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