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Portland Cement Based Concrete Products

SAFETY DATA SHEET

(Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

MM Concrete
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Eau Claire, WI 54703

Telephone Number:
(715) 876-5555

SDS Portland Cement Based Products
Revision: March 2018

MASTERCRAFT by MM Concrete Product Name:

	SKU:
Premixed Concrete	189-1030
Premixed Concrete 4000 psi	189-1098
High Strength Concrete 5000 psi	189-1015
Premixed Sand Mix	189-1043
Crack Resistant Concrete Mix	189-1026

PRODUCT USE: PORTLAND CEMENT-BASED, AGGREGATE PRODUCTS FOR GENERAL CONSTRUCTION

SECTION II: HAZARD IDENTIFICATION

Hazard-determining components of labeling: Silica, Portland Cement

2.1 Classification of the substance or mixture

Carcinogen - Category 1A
Skin Corrosion - Category 1B
Skin Sensitization - Category 1B
Specific Target Organ Toxicity: Single Exposure - Category 3
Specific Target Organ Toxicity: Repeat Exposure - Category 1

2.2a Signal Word DANGER!

2.2b Hazard Statements

May cause cancer through chronic inhalation
Causes severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to lungs through prolonged or repeated inhalation
May cause respiratory irritation



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2.2c Pictograms



2.2d Precautionary Statements

Do not handle until all safety precautions have been read and understood.
 Wear impervious gloves, such as nitrile. Wear eye protection and protective clothing.
 Do not eat, drink, or smoke when using this product.
 Wash thoroughly after handling.
 Use only in a well-ventilated area.
 Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
 Continue rinsing.

If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.

If significant skin irritation occurs: get medical advice or attention.

Immediately seek medical advice or attention if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/containers in accordance with all regulations.

2.3 Additional Information

2.3a HNOCC- Hazards Not Otherwise Classified: Not Applicable

2.3b Unknown Toxicity: None

2.3c WHMIS Classification

Class D2B- Skin/Eye Irritant
 Class D2A- Chronic Toxic Effects- Carcinogen
 Class E- Corrosive Material

2.3d Label Elements According to WHMIS



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Hazard Symbols



Signal word

DANGER!

SECTION III: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>% By Weight</u>
Portland Cement	65997-15-1	10-30*
Sand, Silica, Quartz	14808-60-7	40-70*
Granulated Blastfurnace Slag	65996-69-2	>1

*The concentrations ranges are provided due to batch-to-batch variability.

None of the constituents of this material are of unknown toxicity.

SECTION IV: FIRST AID MEASURES

4.1 Description of the first aid measures

General Information:

After Inhalation: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

After Skin Contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs, get medical advice or attention.

After Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After Swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged of repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin Contact: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.



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Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:

Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V: FIREFIGHTING MEASURES

5.1 Flammability of the product: Non-flammable and non-combustible

5.2 Suitable extinguishing agents: Treat for surrounding material

5.3 Special hazards arising from the substance or mixture: None

5.3a Products of combustion: None

5.3b Explosion hazards in presence of various substances: Non-explosive in presence of shocks

SECTION VI: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures: Wear personal protective equipment (See section VIII). Keep unprotected persons away.

6.2 Methods and material for containment and cleaning up: Do not allow to enter sewers/surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING/STORAGE

7.1 Handling

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA, or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8). Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent the accumulation of dust.

7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until the time of use to preserve product utility.



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SECTION VIII: EXPOSURE CONTROL MEASURES/PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

<u>Hazardous Components</u>	<u>CAS No.</u>	<u>PEL (OSHA)</u>	<u>TLV (ACGIH)</u>
Silica Sand, crystalline	14808-60-7	mg/M ³ 0.1	mg/M ³ 0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Granulated Blastfurnace Slag	65996-69-2	5 (resp)	3 (resp)

8.2 Exposure controls:

Use adequate ventilation to keep exposures below recommended exposure limits.

8.3 General protective and hygienic measures:

Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

8.3a Personal protective equipment:

Protection for hands: Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact.

Eye protection: Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses).

Respiratory protection: A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

SECTION IX: PHYSICAL/CHEMICAL CHARACTERISTICS

General Information

Appearance

Form: Granular Solid
Color: Gray to gray-brown colored
Odor: None

pH-value at 20°C (68°F): 13 (10%)

Boiling point/boiling range: Not applicable

Flash point: Not applicable

Auto igniting: Product not self-igniting

Vapor pressure at 21°C (70°F): Not available

Density at 25°C (77°F): 2.6 to 3.15

Solubility in/Miscibility with

Water: Insoluble

VOC content: 0 g/L VOC



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SECTION X: STABILITY AND REACTIVITY

10.1 Reactivity:

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:

Stable under normal conditions. Keep in dry storage.

10.3 Possibility of hazardous reaction:

No dangerous reaction known under conditions of normal use.

10.4 Thermal decomposition/conditions to be avoided:

No decomposition if used according to specifications.

10.5 Incompatible materials:

Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires.

10.6 Hazardous decomposition or by-products:

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas- silicon tetrafluoride.

SECTION XI: TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Skin contact, skin absorption, eye contact, inhalation, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect mucous membranes.

Eye contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea, or vomiting.

11.3 Delayed, immediate, and chronic effects of short-term and long-term exposure:**Short-term:**

Skin corrosion/irritation: Causes severe skin burns.

Serious eye damage/irritation: Causes severe eye damage.

Respiratory sensitization: Not available.

Skin sensitization: May cause an allergic skin reaction.

Specific target organ toxicity-Single exposure: (Category 3) May cause respiratory irritation.

Aspiration hazard: Not available.



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Long-term:

Carcinogenicity: May cause cancer through chronic inhalation.

Germ cell mutagenicity: Not available.

Reproductive toxicity: Not available.

Specific target organ toxicity- Repeated exposure (Category 1) Causes damage to lungs through prolonged/repeated exposure

Synergistic/Antagonistic effects: None.

SECTION XII: ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course, or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

12.5 Other adverse effects:

No further relevant information available.

SECTION XIII: DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method:

The packaging and material may be land filled; however, a material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117 & 302). Disposal must be made in accordance with local, state, and federal regulations.

13.2 Other disposal considerations

Uncleaned packaging

Recommendation: Disposal must be made in accordance with local, state, and federal regulations.

Recommended cleaning agent: Water, if necessary with cleaning agents.

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SECTION XIV: TRANSPORT INFORMATION

	<u>DOT (U.S.)</u>	<u>TDG (Canada)</u>
UN-Number	Not regulated	Not regulated
UN proper shipping name	Not regulated	Not regulated
Transport Hazard Class(es)	Not regulated	Not regulated
Packing group (if applicable)	Not regulated	Not regulated

14.1 Environmental hazards:

Not available

14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code:

Not available

14.3 Special precautions for user:

Do not handle until all safety precautions have been read and understood.

SECTION XV: OTHER REGULATORY INFORMATION

15.1 Safety, health, and environmental regulations/legislations specific for the chemical:**Canada**

WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Product Act (HPA) and the CPR.

15.2 US Federal Information**SARA 302/311/312/313 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312, or 313.

RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.

CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40, CFR §302.

Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.

FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).

NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.

OSHA Carcinogen: Crystalline silica (quartz) is not listed.

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15.3 State Right to Know Laws

California Prop. 65 Components

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.

Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is “toxic” for purposes of the Massachusetts Toxic Use Reduction Act.

15.4 Global Inventories

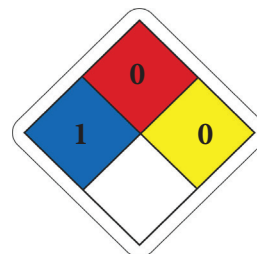
DSL: All companies of this product are on the Canadian DSL list.

TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

15.5 NFPA Ratings

NFPA Rating Explanation Guide					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING SYMBOL	SPECIAL HAZARD
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures	COR	Corrosive
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	OX	Oxidizing
0	No hazard	Will not burn	Stable	☼	Radioactive
				W	Reacts violently or explosively with water
				W OX	Reacts violently or explosively with water and oxidizing

NFPA Chart 1 www.comptonandsons.com
This chart for reference only - For complete specifications consult the NFPA 704 Standard



SECTION XVI: OTHER INFORMATION

Last Updated: March 2018

Midwest Manufacturing Concrete Products believes the information contained herein accurate; however, Midwest Manufacturing makes no guarantees with respect to such accuracy and assumes no liability in connection with the use of the information contained herein which is not intended to be and should not be construed as legal advice or as insuring compliance with any federal, state/local laws or regulations. Any party using this product should review all such laws, rules, or regulations prior to use, including but not limited to US and Canada Federal, Provincial, and State regulations.

End of SDS