

SAFETY DATA SHEET
PRODUCT CODE(S): **2028**

Revision Date: May 20, 2022 • Page 1 of 19



TYPE N PORTLAND LIME MORTAR / TYPE S PORTLAND LIME MORTAR /
TYPE O PORTLAND LIME MORTAR / TYPE M PORTLAND LIME MORTAR

SECTION 1. IDENTIFICATION

Product identifier used on the label	Type N Portland Lime Mortar / Type S Portland Lime Mortar / Type O Portland Lime Mortar / Type M Portland Lime Mortar
Other means of identification	2028
Recommended use of the chemical and restrictions on use	Pre-blended Portland cement/lime/sand mortar, for various applications. No restrictions on use known.
Chemical family	Mixture of: Portland cement; lime; Sand; Pigment

Name, address, and telephone number of the manufacturer:

Maxi-Mix Inc.

8105 Esquesing Line, Milton, ON, Canada L9T 9E3
Manufacturer's Telephone Number: (905) 876-3477
24 Hr. Emergency Telephone Number: No information available.

Name, address, and telephone number of the supplier:

Refer to manufacturer

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical:

Powder; Various colours. No odour.

Most important hazards:

May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. May cause an allergic skin reaction. Contains material which can cause lung damage. Contains material which can cause cancer. Occupational exposure to the substance or mixture may cause adverse effects.

For further information, please refer to **section 11** of the SDS.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. See Section 12 for more environmental information.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

CLASSIFICATION:

Skin corrosion/irritation	Category 1
Eye damage/irritation	
Skin sensitization	
Carcinogenicity	
Specific target organ toxicity, single exposure	Category 3 (Respiratory irritation)
Specific target organ toxicity, repeated exposure	Category 1

SECTION 2. HAZARDS IDENTIFICATION (CONT)

Label elements:

Hazard

Pictogram(s)



Signal Word

DANGER!

Hazard statement(s):

Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May cause respiratory irritation.
 May cause cancer by inhalation.
 Causes damage to the lungs through prolonged or repeated exposure if inhaled.

Precautionary statement(s):

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or mist. Wash exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/clothing and eye/face protection.

Immediately call a POISON CENTER or doctor/physician. **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. **IF ON SKIN (or hair):** Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. **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.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents/container in accordance with local regulation.

Other hazards:

Other hazards which do not result in classification:

Contact with water may cause hydration, and formation of caustic alkaline material. Absorbs moisture from the air. Hardens over time in moist conditions. When in solution, may corrode aluminum. Contact with some reactive metals may produce flammable hydrogen gas. There is a potential for static buildup and static discharge when transferring cement powders through a nonconductive plastic conveyance system. Static discharge may result in damage/injury to workers or equipment. May cause severe irritation and corrosive damage in the mouth, throat and stomach.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE			
Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Portland cement	Hydraulic cement; Cement, portland, chemicals	65997-15-1	7.0 – 30.0
Calcium carbonate	Limestone; Aragonite	1317-65-3	5.0 - 13.0
Crystalline silica	Quartz silica; Crystallized silicon dioxide	14808-60-7	0.5 – 5.0
Calcium hydroxide	Slaked lime; Calcium hydrate; Hydrated lime	1305-62-0	0.1 – 1.5
Calcium oxide	Calcium monoxide; Unslaked lime	1305-78-8	0.1 – 1.5
Mica	Not available	12001-26-2	0.1 – 1.0



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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS (CONT)

Portland Lime Mortar Color # 60 also contains the following chemical:

Chemical name	Common name and synonyms	CAS #	Concentration (% by weight)
Titanium dioxide	Anatase; Titanic acid anhydride	13463-67-7	0.5 — 5.0

Portland Lime Mortar Colors # 80, 85, 94, 97, and colors 10 through 70 also contain the following chemical:

Black Iron Oxide	Ferric oxide, black	1317-61-9	0.5 — 5.0
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Portland Lime Mortar Colors # 80, 85, and 97 also contain the following chemical:

Carbon black	Furnace black; Lamp black; Thermal black	1333-86-4	0.1 — 1.0
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Portland Lime Mortar Colors # 80, 85, and colors 10 through 70 also contain the following chemicals:

Yellow iron oxide	Ferric oxide, yellow	51274-00-1	0.5 — 5.0
Iron oxide	Ferric oxide; Diiron trioxide	1309-37-1	0.5 — 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

This product contains trace amounts of: Chromates; Nickel Compounds. Chromate chemicals are present as Cr III and Cr VI compounds.

SECTION 4. FIRST-AID MEASURES

Description of first aid measures:

INGESTION: **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER or doctor/physician.

INHALATION: **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Immediately call a POISON CENTER or doctor/physician.

SKIN CONTACT: Gently blot or brush away excess chemical.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Thoroughly wash with lukewarm, gently flowing water and a mild, pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Immediately call a POISON CENTER or doctor/physician.

EYE CONTACT: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Continue to rinse for at least 20 minutes. Immediately call a POISON CENTER or doctor/physician. Take care not to rinse contaminated water into unaffected eyes or onto the face.



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SECTION 4. FIRST-AID MEASURES (CONT)

Most important symptoms and effects, both acute and delayed:

1. May cause severe irritation or burns to the skin. Contact with wet material, or moist areas of the skin, causes skin burns. Symptoms may include blistering, ulcerations and scarring. Symptoms may be delayed. Wet product causes burns with little warning.
2. May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.
3. Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage.
4. Inhalation can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing.
5. May cause cancer by inhalation. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
6. Causes damage to the lungs through prolonged or repeated exposure if inhaled. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.
7. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

Indication of any immediate medical attention and special treatment needed:

1. Immediate medical attention is required.
2. Causes burns.
3. Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media:

SUITABLE EXTINGUISHING MEDIA:

Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

UNSUITABLE EXTINGUISHING MEDIA:

Use water spray with caution.

Special hazards arising from the substance or mixture/ Conditions of flammability:

Not considered flammable.

Contact with water gives off heat. Contact with water may cause hydration, and formation of caustic alkaline material. Contact with some reactive metals may produce flammable hydrogen gas. There is a potential for static buildup and static discharge when transferring cement powders through a nonconductive plastic conveyance system. Static discharge may result in damage/injury to workers or equipment.



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SECTION 5. FIRE-FIGHTING MEASURES (CONT)

Flammability classification
(OSHA 29 CFR 1910.106):

Not flammable.

Hazardous combustion products:

Calcium oxides; Other irritating fumes and smoke.

Special protective equipment and precautions for firefighters:

*PROTECTIVE EQUIPMENT
FOR FIRE-FIGHTERS:*

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

*SPECIAL FIRE-FIGHTING
PROCEDURES:*

Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

All persons dealing with the clean-up should wear the appropriate personal protective equipment. Isolate the hazard area. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Do not touch or walk through spilled material. Refer to protective measures listed in sections 7 and 8.

Environmental precautions:

Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up:

Ventilate the area. Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources. Using HEPA vacuum, or other dustless methods, gather up spilled material and place in suitable container for later disposal (see section 13). Avoid adding water, material becomes alkaline when wet. Scrape up wet material and place in an appropriate container. Allow the material to dry before disposing. Contact the proper local authorities.

Special spill response procedures:

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States (Phone: 1-800-424-8802).

US CERCLA Reportable quantity (RQ): None reportable.

In Canada: Contact appropriate local and provincial environmental authorities for assistance and/or reporting requirements.



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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing.

Persons with recurrent skin eczema or sensitization problems should be excluded from working with this product. Once a person is sensitized, no further exposure to the material that caused the sensitization should be permitted.

Use only outdoors or in a well-ventilated area. Wear protective equipment during handling. Wear protective gloves/clothing and eye/face protection.

Do not breathe dust or mist. Avoid contact with skin, eyes and clothing.

Keep away from extreme heat and direct flame. There is a potential for static buildup and static discharge when transferring cement powders through a nonconductive plastic conveyance system. Static discharge may result in damage/injury to workers or equipment. Use good grounding techniques.

Avoid unintentional exposure to water. Use caution when adding water and ensure that users of this product are properly protected.

Avoid and control operations which create dust. Keep away from acids and other incompatibles.

Keep container tightly closed when not in use. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Cement can buildup or adhere to the walls of a confined space. The cement can release, collapse or fall unexpectedly.

To prevent burial or suffocation, do not enter a confined space, such as a silo, bin, bulk truck, or other storage container or vessel that stores or contains cement.

Conditions for safe storage:

Store in a cool, dry, well-ventilated area.

Store away from incompatible materials.

Keep containers dry and tightly closed to avoid moisture absorption and contamination. Store locked up.

Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Inspect periodically for damage or leaks.

Incompatible materials:

Strong acids; Strong oxidizing agents;

Hydrofluoric acid; Ammonium salts;

Metals (e.g. tin, aluminum, zinc and alloys containing these metals).

Avoid unintentional exposure to water.



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS Chemical name	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Portland cement	1 mg/m ³ (respirable)	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Calcium carbonate	N/Av	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Crystalline silica	0.025 mg/m ³ (respirable)	N/Av	0.1 mg/m ³ (respirable) (final rule limit)	N/Av
Calcium hydroxide	5 mg/m ³	N/Av	15 mg/m ³ (total dust); 5 mg/m ³ (respirable)	N/Av
Calcium oxide	2 mg/m ³	N/Av	5 mg/m ³	N/Av
Mica	3 mg/m ³ (respirable)	N/Av	20 mppcf	N/Av
Black Iron Oxide	5 mg/m ³ (respirable) (as 'Iron oxide')	N/Av	10 mg/m ³ (iron oxide fume)	N/Av
Carbon black	3.0 mg/m ³ (inhalable)	N/Av	3.5 mg/m ³	N/Av
Yellow iron oxide	5 mg/m ³ (respirable) (as 'Iron oxide')	N/Av	10 mg/m ³ (iron oxide fume)	N/Av
Iron oxide	5 mg/m ³ (respirable)	N/Av	10 mg/m ³ (fume)	N/Av
Titanium dioxide	10 mg/m ³	N/Av	15 mg/m ³ (total dust)	N/Av

Exposure controls

**VENTILATION AND
 ENGINEERING MEASURES:**

Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Good general ventilation (typically 10 air changes per hour) should be used. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection:

Respiratory protection must be worn wherever inhalation of particulates if possible. Where occupational exposure limits are exceeded, wear a suitable, NIOSH-approved particulate respirators (N95 or better). Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.

Skin protection:

Wear protective gloves/clothing. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Wear resistant clothing and boots.

Eye/face protection:

Wear chemical splash goggles to prevent dusts from entering the eyes. A full face shield may also be necessary.

Other protective equipment:

An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.



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SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

General hygiene considerations:

Do not breathe dust or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing must not be allowed out of the workplace. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Powder; Various colours.	Flammability (solid, gas)	Not flammable	Partition coefficient: n-octanol/water or Coefficient of water/oil distribution	N/Av
Odour	No odour	Lower & Upper flammable limit (% by vol.)	N/Ap	Auto-ignition & Decomposition temperature	N/Av
Odour threshold	N/Av	Oxidizing properties	None known	Viscosity & Volatiles (% by weight)	N/Ap
pH	12 - 13	Explosive properties	Not explosive	Volatile organic compounds (VOC's)	N/Ap
Melting point/ Freezing point	N/Av	Vapour pressure & density	N/Ap	Absolute pressure of container	N/Ap
Initial boiling point and boiling range	N/Ap	Relative density / Specific gravity	2.5 - 3.15 (water = 1)	Flame projection length	N/Ap
Flash point & Flashpoint (Method)	N/Ap	Other solubility(ies)	Not available	Other physical/chemical comments	No additional information
Evaporation rate (BuAe = 1)	N/Ap	Solubility in water	Slightly soluble. Contact with water may cause hydration, and formation of caustic alkaline material.		

SECTION 10. STABILITY AND REACTIVITY

Reactivity:

Contact with water gives off heat. Contact with water may cause hydration, and formation of caustic alkaline material. Reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride. Dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Aqueous solutions may react with some metals (e.g. Aluminum, zinc, tin and their alloys) to release flammable hydrogen gas. When in solution, may corrode aluminum.

Chemical stability:

Stable under normal conditions. Absorbs moisture from the air. Hardens over time in moist conditions.

Possibility of hazardous reactions:

Hazardous polymerization does not occur. No dangerous reaction known under conditions of normal use.

Conditions to avoid:

Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid heat and open flame.

Incompatible materials:

Strong acids; Strong oxidizing agents; Hydrofluoric acid; Ammonium salts; Metals (e.g. tin, aluminum, zinc and alloys containing these metals). Avoid unintentional exposure to water.

Hazardous decomposition products:

None known, refer to hazardous combustion products in Section 5.



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation:	YES	Routes of entry ingestion:	YES
Routes of entry skin & eye:	YES	Routes of exposure skin absorption:	NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

SIGN AND SYMPTOMS INHALATION:

Inhalation can cause severe respiratory irritation.
 Symptoms may include coughing, choking and wheezing.

SIGN AND SYMPTOMS INGESTION:

May cause severe irritation and corrosive damage in the mouth, throat and stomach.
 Symptoms may include severe abdominal pain, vomiting, burns and bleeding.

SIGN AND SYMPTOMS SKIN:

May cause severe irritation or burns to the skin.
 Contact with wet material, or moist areas of the skin, causes skin burns.
 Symptoms may include blistering, ulcerations and scarring.
 Symptoms may be delayed. Wet product causes burns with little warning.

SIGN AND SYMPTOMS EYES:

Causes serious eye damage.
 Symptoms may include severe pain, blurred vision, redness and corrosive damage.

Potential Chronic Health Effects:

Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing.

Mutagenicity:

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). **Hazardous classification:**
 Carcinogenicity — Category 1. May cause cancer. Symptoms may include persistent coughing, shortness of breath, coughing up blood and wheezing.
 This product contains Crystalline silica — Quartz.
 Crystalline silica — Quartz is classified as carcinogenic by IARC (Group 1), ACGIH (Group A2), NTP (Group 1) and OSHA (OSHA Select carcinogen).
 Portland Lime Mortar Type M, N, O, S Color # 60 also contains Titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B).
 Portland Lime Mortar Type M, N, O, S Colors 80, 85, and 97 also contain Carbon black. Carbon black is classified as carcinogenic by IARC (Group 2B).



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SECTION 11. TOXICOLOGICAL INFORMATION (CONT)

Reproductive effects & Teratogenicity:

This product is not expected to cause reproductive or developmental effects.

Sensitization to material:

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Skin sensitization — Category 1. May cause an allergic skin reaction.

May cause severe skin sensitization with allergic contact dermatitis symptoms such as swelling, rash and eczema.

Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in cement.

This product contains trace levels of hexavalent chromium (Chromium VI).

A reduction of Cr(VI) compounds in this material, by the addition of a soluble Cr VI reducing agent, to less than 2 ppm will reduce the prevalence of allergic eczema.

Not expected to be a respiratory sensitizer.

Specific target organ effects:

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Specific target organ toxicity, single exposure — Category 3.

May cause respiratory irritation.

Specific target organ toxicity, repeated exposure — Category 1.

Causes damage to organs through prolonged or repeated exposure.

Contains crystalline silica; prolonged exposure by inhalation of particles can cause serious lung damage, including silicosis.

Symptoms may include coughing, shortness of breath and eventually severe respiratory impairment.

Medical conditions aggravated by overexposure:

Pre-existing skin, eye and respiratory disorders.

Synergistic materials:

No information available.

Toxicological data:

Not classified for acute toxicity based on available data.

There is no available data for the product itself, only for the ingredients.

See below for individual ingredient acute toxicity data.



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SECTION 11. TOXICOLOGICAL INFORMATION (CONT)

Chemical name	LC ₅₀ (4hr)	LD ₅₀	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Portland cement	N/Av	N/Av	> 2000 mg/kg (No mortality)
Calcium carbonate	> 3 mg/L (aerosol) (No mortality)	6450 mg/kg	> 2000 mg/kg (No mortality)
Crystalline silica	N/Av	N/Av	N/Av
Calcium hydroxide	N/Av	7340 mg/kg	> 2500 mg/kg (No mortality)
Calcium oxide	N/Av	> 2000 mg/kg (No mortality)	> 2500 mg/kg (No mortality)
Mica	N/Av	> 15 000 mg/kg	N/Av

Portland Lime Mortar Color # 60 also contains the following chemical:

Titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg
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Portland Lime Mortar Colors # 80, 85, 94, 97, and colors 10 through 70 also contain the following chemical:

Black Iron Oxide	N/Av	> 5000 mg/kg (No mortality)	N/Av
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Portland Lime Mortar Colors # 80, 85, and 97 also contain the following chemical:

Carbon black	6.75 mg/L (dust)	> 10 000 mg/kg	> 3000 mg/kg
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Portland Lime Mortar Colors # 80, 85, and colors 10 through 70 also contain the following chemicals:

Yellow iron oxide	N/Av	> 10,000 mg/kg	N/Av
Iron oxide	N/Av	> 10 000 mg/kg	N/Av

Other important toxicological hazards: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity:

No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Large or frequent spills can have a harmful or damaging effect on the environment. Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems.

See the following tables for individual ingredient ecotoxicity data.

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SECTION 12. ECOLOGICAL INFORMATION (CONT)

ECOTOXICITY DATA Ingredients	CAS #	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Portland cement	65997-15-1	N/Av	N/Av	None
Calcium carbonate	1317-65-3	> 100 mg/L (Rainbow trout)	N/Av	None
Crystalline silica	14808-60-7	N/Av	N/Av	None
Calcium hydroxide	1305-62-0	50.6 mg/L (Rainbow trout)	N/Av	None
Calcium oxide	1305-78-8	50.6 mg/L (Rainbow trout)	N/Av	None
Mica	12001-26-2	N/Av	N/Av	None
Black Iron Oxide	1317-61-9	N/Av	N/Av	None
Carbon black	1333-86-4	> 1000 mg/L (Zebra fish)	N/Av	None
Yellow iron oxide	51274-00-1	N/Av	N/Av	None
Iron oxide	1309-37-1	> 50 000, < 100 000 mg/L (Zebra fish)	N/Av	None
Titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None

Ingredients	CAS #	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Portland cement	65997-15-1	N/Av	N/Av	None
Calcium carbonate	1317-65-3	100 mg/L (Daphnia magna)	N/Av	None
Crystalline silica	14808-60-7	N/Av	N/Av	None
Calcium hydroxide	1305-62-0	49.1 mg/L (Daphnia magna)	N/Av	None
Calcium oxide	1305-78-8	49.1 mg/L (Daphnia magna)	N/Av	None
Mica	12001-26-2	N/Av	N/Av	None
Black Iron Oxide	1317-61-9	N/Av	N/Av	None
Carbon black	1333-86-4	> 5600 mg/L/24hr (Daphnia magna)	N/Av	None
Yellow iron oxide	51274-00-1	> 100 mg/L (Daphnia magna)	N/Av	None
Iron oxide	1309-37-1	> 100 mg/L (Daphnia magna)	N/Av	None
Titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None

MaxiMix.ca

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SECTION 12. ECOLOGICAL INFORMATION (CONT)

Ingredients	CAS #	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Portland cement	65997-15-1	N/Av	N/Av	None
Calcium carbonate	1317-65-3	14 mg/L/72hr (Green algae)	14 mg/L/72hr	None
Crystalline silica	14808-60-7	N/Av	N/Av	None
Calcium hydroxide	1305-62-0	184.57 mg/L/72hr (Green algae)	48 mg/L/72hr	None
Calcium oxide	1305-78-8	184.57 mg/L/72hr (Green algae)	48 mg/L/72hr	None
Mica	12001-26-2	N/Av	N/Av	None
Black Iron Oxide	1317-61-9	N/Av	N/Av	None
Carbon black	1333-86-4	> 10 000 mg/L/72hr (Green algae)	N/Av	None
Yellow iron oxide	51274-00-1	N/Av	N/Av	None
Iron oxide	1309-37-1	N/Av	N/Av	None
Titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None

Persistence and degradability:

Not expected to be rapidly biodegradable.

Bioaccumulation potential:

No data is available on the product itself.
See the following data for ingredient information.

Components	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Calcium oxide (CAS 1305-78-8)	- 0.57	N/Av

Mobility in soil:

No data is available on the product itself.

Other Adverse Environmental effects:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal:

Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way.

Empty containers retain residue and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Methods of Disposal:

Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA:

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Label
TDG	None	Not regulated	Not regulated	None	
TDG Additional information: None					
49CFR/DOT	None	Not regulated	Not regulated	None	
49CFR/DOT Additional information: None					
ICAO/IATA	None	Not regulated	Not regulated	None	
49CFR/DOT Additional information: None					
IMDG	None	Not regulated	Not regulated	None	
IMDG Additional information: None					

Special precautions for user:

Appropriate advice on safety must accompany the package. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

Environmental hazards:

This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

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

No information available.

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SECTION 15. REGULATORY INFORMATION

US Federal Information: Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
Portland cement	65997-15-1	Yes	None	None	No	N/Ap
Calcium carbonate	1317-65-3	Yes	None	None	No	N/Ap
Crystalline silica	14808-60-7	Yes	None	None	No	N/Ap
Calcium hydroxide	1305-62-0	Yes	None	None	No	N/Ap
Calcium oxide	1305-78-8	Yes	None	None	No	N/Ap
Mica	12001-26-2	Yes	None	None	No	N/Ap
Black Iron Oxide	1317-61-9	Yes	None	None	No	N/Ap
Carbon black	1333-86-4	Yes	None	None	No	N/Ap
Yellow iron oxide	51274-00-1	Yes	None	None	No	N/Ap
Iron oxide	1309-37-1	Yes	None	None	No	N/Ap
Titanium dioxide	13463-67-7	Yes	None	None	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Health hazards (Skin corrosion; Eye Damage; Skin sensitization; Carcinogenicity; Specific target organ toxicity, single exposure; Specific target organ toxicity, repeated exposure Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws: The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Portland cement	65997-15-1	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes
Calcium carbonate	1317-65-3	No	N/Ap	No	Yes	Yes	Yes	Yes	Yes
Crystalline silica	14808-60-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes
Calcium hydroxide	1305-62-0	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Calcium oxide	1305-78-8	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Mica	12001-26-2	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Black Iron Oxide	1317-61-9	No	N/Ap	No	No	No	No	No	No
Carbon black	1333-86-4	Yes	Cancer (airborne particles of respirable size)	Yes	Yes	Yes	Yes	Yes	Yes
Yellow iron oxide	51274-00-1	No	N/Ap	No	No	No	No	No	No
Iron oxide	1309-37-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	Yes	Cancer (airborne particles of respirable size)	No	Yes	Yes	Yes	Yes	Yes

California Proposition 65: This product can expose you to chemicals, which are known to the State of California to cause cancer, and, which are known to the State of California to cause birth defects or other reproductive harm. This product contains trace amounts of: Chromium (hexavalent compounds); Nickel Compounds.

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SECTION 15. REGULATORY INFORMATION (CONT)

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

- Chromium VI compound (Chromate) (Part 1, Group B Substance)
- Nickel Compounds (Part 1, Group A Substance)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information: Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Portland cement	65997-15-1	266-043-4	Present	Not listed	Not listed	KE-29067	Present	May be used as a single component chemical under an appropriate group standard.
Calcium carbonate	1317-65-3	215-279-6	Present	Present	(1)-122	KE-21996	Present	May be used as a single component chemical under an appropriate group standard.
Crystalline silica	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125
Calcium hydroxide	1305-62-0	215-137-3	Present	Present	(1)-181	KE-04518	Present	HSR002925, HSC000322
Calcium oxide	1305-78-8	215-138-9	Present	Present	(1)-189	KE-04588	Present	HSR002926
Mica	12001-26-2	None. This chemical may be grouped under the name 'Naturally occurring substances' with the following EINECs number: 310-127-6	Present	Present	Not listed	KE-25420	Present	May be used as a single component chemical under an appropriate group standard.
Black Iron Oxide	1317-61-9	215-277-5	Present	Present	(1)-357	KE-34314	Present	May be used as a single component chemical under an appropriate group standard.
Carbon black	1333-86-4	215-609-9	Present	Present	(5)-3328; (5)-5222	KE-04682	Present	HSR002801
Yellow iron oxide	51274-00-1	257-098-5	Present	Present	(5)-5163	KE-08032	Present	May be used as a single component chemical under an appropriate group standard.
Iron oxide	1309-37-1	215-168-2	Present	Present	(5)-5189; (5)-5188; (5)-5163; (1)-357; (1)-1073	KE-10897	Present	May be used as a single component chemical under an appropriate group standard.
Titanium dioxide	13463-67-7	236-675-5	Present	Present	(5)-5225; (1)-558	KE-33900	Present	May be used as a single component chemical under an appropriate group standard.



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SECTION 16. OTHER INFORMATION

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists

AICS: Australian Inventory of Chemical Substances

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation,
and Liability Act of 1980

CFR: Code of Federal Regulations

DOT: Department of Transportation

ENCs: Existing and New Chemical Substances

EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Dangerous Goods

Inh: Inhalation

IOC: Inventory of Chemicals

IUCLID: International Uniform Chemical Information Database

KECI: Korean Existing Chemicals Inventory

KECL: Korean Existing Chemicals List

LC: Lethal Concentration

LD: Lethal Dose

MA: Massachusetts

MN: Minnesota

mppcf: million particles per cubic foot

MSHA: Mine Safety and Health Administration

N/Ap: Not Applicable

N/Av: Not Available

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NOEC: No observable effect concentration



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SECTION 16. OTHER INFORMATION (CONT)

Legend:

OECD: Organisation for Economic Co-operation and Development
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
PNOC: Particulates Not Otherwise Classified
PNOR: Particulates Not Otherwise Regulated
PNOS: Particles Not Otherwise Specified
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
TSCA: Toxic Substance Control Act
WHMIS: Workplace Hazardous Materials Identification System

References:

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices
2. ECHA - European Chemical Agency
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases
4. Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List
7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal

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Revision No.	2
Revision Information	Full document review.
Other special considerations for handling	Provide adequate information, instruction and training for operators.

Prepared for:



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