

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Issue date: 12/19/2013 Revision date: 6/22/2021 Supersedes: 11/15/2017 Version: 3.0

SECTION 1. Identification	
SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: Portland Cement – Type IL
1.2. Recommended use and restriction	ons on use
Use of the substance/mixture	: Mortar mixes for construction use.
1.3. Supplier	
Manufacturer Sakrete of North America 625 Griffith Rd., Ste 100 Charlotte, NC 28217 T 866-725-7383	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC (800) 424-9300
2.1. Classification of the substance of GHS US classification Acute Tox. 4 (Oral) Skin Corr. 1 Eye Dam. 1 Skin Sens. 1B Carc. 1A STOT SE 3	Harmful if swallowed Causes severe skin burns and eye damage Causes serious eye damage May cause an allergic skin reaction May cause cancer May cause respiratory irritation
2.2. GHS Label elements, including p	recautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Danger Harmful if swallowed Causes severe skin burns and eye damage May cause an allergic skin reaction May cause respiratory irritation May cause cancer
Precautionary statements (GHS US)	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.

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	If exposed or concerned: Get medical advice/attention.
	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 skin irritation or rash occurs: Get medical advice/attention.
	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.
	Immediately call a poison center or doctor.
	Store in a well-ventilated place. Keep container tightly closed.
	Dispose of contents/container to hazardous or special waste collection point, in accordance with
	local, regional, national and/or international regulation.
Supplemental Information	Read and follow all precautions listed in the Safety Data Sheet, which is available on request.
	Additional information on the selection and use of respirators can be found in the NIOSH
	Respirator Selection Logic (DHHS [NIOSH] Publication No. 2005-100) and the NIOSH Guide to
	Industrial Respiratory Protection (DHHS [NIOSH] Publication No. 87-116) available at
	http://www.cdc.gov/niosh/docs/87-116/.
	This product contains greater than 0.1% crystalline silica. Crystalline silica has been linked to
	cancer, silicosis, and other lung problems in conditions of prolonged airborne over-exposure.
	Keep product dry until use. Avoid contact with bleed water from wet product. Clothing saturated
	with wet product can result in delayed, serious alkali skin burns.
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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

91.25 % of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures **Product identifier** % Name Cement, portland, chemicals CAS-No.: 65997-15-1 77 – 95 Gypsum (Ca(SO4).2H2O) CAS-No.: 13397-24-5 4 – 8 Magnesium oxide (MgO) CAS-No.: 1309-48-4 0.5 – 7 CAS-No.: 1317-65-3 Limestone 0 – 15 Calcium oxide CAS-No.: 1305-78-8 ≤ 3.5 Flue dust, Portland Cement ≤ 2.75 CAS-No.: 68475-76-3 Quartz CAS-No.: 14808-60-7 0.02 - 0.21 CAS-No.: 7440-02-0 10 – 130 ppm Nickel Chromium, ion (Cr 6+) CAS-No.: 18540-29-9 0 – 120 ppm

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SECTION 4: First-aid measures

4.1. Description of first aid measures	3 3	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.	
First-aid measures after inhalation	If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.	
First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.	
First-aid measures after eye contact	: 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 or doctor/physician.	
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. Never give anything by mouth to an unconscious person.	
4.2. Most important symptoms and effects (acute and delayed)		
Symptoms/effects after inhalation	: May cause burns to the respiratory tract.	
Symptoms/effects after skin contact	Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.	
Symptoms/effects after 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. May cause burns.	
Symptoms/effects after ingestion	: Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.	
Chronic symptoms	: May cause cancer.	

4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.: None known.	
5.2. Specific hazards arising from the chemical		
Fire hazard	: Product does not burn; however its packaging may. Products of combustion may include, and are not limited to: oxides of carbon.	
5.3. Special protective equipment and precautions for fire-fighters		
Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).	

SECTION 6: Accidental release measures	
6.1. Personal precautions, pr	otective equipment and emergency procedures
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid contact with skin and eyes.
6.1.1. For non-emergency person	nel

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No additional information available

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6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up	
For containment	: Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
Methods for cleaning up	: Vacuum or sweep material and place in a disposal container. Minimize generation of dust. Provide ventilation.
6.4. Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage			
7.1. Precautions for safe handling	7.1. Precautions for safe handling		
Precautions for safe handling	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Do not swallow. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handle and open container with care.		
Hygiene measures	: Take off immediately all contaminated clothing and wash it before reuse. Always wash hands after handling the product.		
7.2. Conditions for safe storage, including	7.2. Conditions for safe storage, including any incompatibilities		
Storage conditions	: Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. Clean up spilled material promptly.		
Storage area	: Store away from heat.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Portland Cement – Type IL	
No additional information available	
Cement, portland, chemicals (65997-15-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Portland Cement – Type IL
ACGIH OEL TWA	1 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm func; resp symptoms; asthma. Notations: A4 (Not classifiable as a Human Carcinogen)
ACGIH chemical category	Not Classifiable as a Human Carcinogen
Regulatory reference	ACGIH 2020

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Cement, portland, chemicals (65997-15-1)		
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)	
USA - IDLH - Occupational Exposure Limits		
IDLH	5000 mg/m³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)	
Gypsum (Ca(SO4).2H2O) (13397-24-5)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	10 mg/m³ (inhalable particulate matter (Calcium sulfate)	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)	
USA - NIOSH - Occupational Exposure Limits	·	
NIOSH REL (TWA)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)	
Magnesium oxide (MgO) (1309-48-4)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	10 mg/m³ (inhalable particulate matter)	
ACGIH chemical category	Not Classifiable as a Human Carcinogen	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	15 mg/m³ (fume, total particulate)	
USA - IDLH - Occupational Exposure Limits		
IDLH	750 mg/m³ (fume)	
Flue dust, Portland Cement (68475-76-3)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TLV	10 mg/m³ (as inhalable fraction, PNOS) 3 mg/m³ (as respirable fraction, PNOS)	
USA - OSHA - Occupational Exposure Limits		
OSHA PEL	15 mg/m³ (as total dust, PNOR) 5 mg/m³ (as respirable fraction, PNOR)	
Calcium oxide (1305-78-8)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Calcium oxide	
ACGIH OEL TWA	2 mg/m ³	
Remark (ACGIH)	TLV® Basis: URT irr	

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Coloium oxido (4905 70 0)		
Calcium oxide (1305-78-8)		
USA - OSHA - Occupational Exposure Limits		
Local name	Calcium oxide	
OSHA PEL (TWA) [1]	5 mg/m³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
USA - IDLH - Occupational Exposure Limits		
IDLH	25 mg/m ³	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	2 mg/m ³	
Quartz (14808-60-7)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	0.025 mg/m³ (respirable particulate matter)	
ACGIH chemical category	Suspected Human Carcinogen	
USA - OSHA - Occupational Exposure Limits		
Local name	Quartz (Total Dust) (Silica: Crystalline)	
OSHA PEL (TWA) [1]	50 μg/m³ (Respirable crystalline silica)	
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA) use formula: (30 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	
USA - IDLH - Occupational Exposure Limits		
IDLH	50 mg/m³ (respirable dust)	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	0.05 mg/m³ (respirable dust)	
Limestone (1317-65-3)		
USA - OSHA - Occupational Exposure Limits		
OSHA PEL (TWA) [1]	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)	
USA - NIOSH - Occupational Exposure Limits		
NIOSH REL (TWA)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)	
8.2. Appropriate engineering controls		
Appropriate engineering controls :	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Provide readily accessible eye wash stations and safety showers.	
Environmental exposure controls :	Avoid release to the environment.	
8.3. Individual protection measures/Personal	protective equipment	
Personal protective equipment: Avoid all unnecessary exposure.		
Hand protection:		
Wear suitable gloves resistant to chemical penetration		

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Eye protection: Wear eye/face protection Skin and body protection: Wear suitable clothing common to do-it-yourself projects.

Respiratory protection:

A NIOSH approved dust mask or filtering facepiece 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).

Other information:

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties Physical state Solid : Appearance Powder. Color Gray Odor odorless : : No data available Odor threshold : 12 - 13 (Highly alkaline when wet.) pН Melting point : No data available Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Non flammable. ٠ Vapor pressure No data available Relative vapor density at 20 °C : No data available Relative density ÷ 2.8 - 3.1Solubility : Slight. Water: 0.1 - 1 % Partition coefficient n-octanol/water : No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic : Not applicable Viscosity, dynamic ÷ No data available **Explosion limits** Not applicable : No data available Explosive properties Oxidizing properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use. An alkali reaction from components of Portland Cement – Type IL will corrode aluminum.

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10.2. Chemical stability

Stable under normal storage conditions. Keep dry in storage.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Do not mix with other chemcals.

10.4. Conditions to avoid

Moisture - product must be kept dry until ready to use. Heat. Incompatible materials.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified
Portland Cement – Type IL	
ATE US (oral)	500 mg/kg body weight
Magnesium oxide (MgO) (1309-48-4)	
LD50 oral rat	3870 mg/kg
Flue dust, Portland Cement (68475-76-3)	
LD50 oral rat	> 1848 mg/kg body weight Animal: rat, Guideline: other:OECD 422
LD50 dermal rat	≥ 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 inhalation rat	> 6.04 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)
Calcium oxide (1305-78-8)	
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit, Guideline: other:US Federal Register 38: 187, Part 1500, Section 41, 1973.
Skin corrosion/irritation	: Causes severe skin burns.
Serious eye damage/irritation	pH: 12 – 13 (in water) : Causes serious eye damage. pH: 12 – 13 (in water)
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	Product may contain trace concentrations of Chromate and Nickel compounds that can cause ar allergic skin reaction, allergic contact dermatitis, or ACD. Once sensitized, brief skin contact with very small amounts of Cr 6+ may result in inflammation, rash, itching or severe skin ulcers. ACD is long-lasting and employees can remain sensitized to Cr 6+ for many years.
Carcinogenicity	: May cause cancer.
Quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans

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Quartz (14808-60-7)		
National Toxicology Program (NTP) Status	Known Human Carcinogens	
In OSHA Hazard Communication Carcinogen list	Yes	
Reproductive toxicity :	Not classified	
STOT-single exposure :	May cause respiratory irritation.	
Cement, portland, chemicals (65997-15-1)		
STOT-single exposure	May cause respiratory irritation.	
Flue dust, Portland Cement (68475-76-3)		
STOT-single exposure	May cause respiratory irritation.	
Calcium oxide (1305-78-8)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure :	Not classified	
Calcium oxide (1305-78-8)		
LOAEL (oral,rat,90 days)	300 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.413 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)	
Quartz (14808-60-7)		
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.	
•	Not classified	
Viscosity, kinematic :	Not applicable	
Potential Adverse human health effects and : symptoms	No data available.	
	May cause burns to the respiratory tract.	
	Causes severe skin burns. Symptoms may include redness, pain, blisters. May cause an allergic skin reaction. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. Handling can cause dry skin.	
Symptoms/effects after 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. May cause burns.	
Symptoms/effects after ingestion :	Harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.	
Chronic symptoms :	May cause cancer.	
Other information :	Likely routes of exposure: ingestion, inhalation, skin and eye.	

SECTION 12: Ecological information	
12.1. Toxicity	
6, 6	No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful. Do not flush to sewer or allow to enter waterways.
Calcium oxide (1305-78-8)	
LC50 - Fish [1]	1070 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static])
NOEC chronic fish	100 mg/l Test organisms (species): other:Tilapia nilotica Duration: '46 d'

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12.2. Persistence and degradability		
Portland Cement – Type IL		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Portland Cement – Type IL		
Bioaccumulative potential	Not established.	
Calcium oxide (1305-78-8)		
BCF - Fish [1]	(no bioaccumulation)	
12.4. Mobility in soil		
Portland Cement – Type IL		
Ecology - soil	No data available.	
12.5. Other adverse effects		
	No data available. No other effects known.	

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information	
In accordance with DOT	
14.1. UN number	
Not regulated for transport	
14.2. UN proper shipping name	
Proper Shipping Name (DOT)	: Not applicable
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not applicable
14.4. Packing group	
Packing group (DOT)	: Not applicable
14.5. Environmental hazards	
Other information	: No supplementary information available.
14.6. Special precautions for user	
Special transport precautions	: Do not handle until all safety precautions have been read and understood.

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

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Gypsum (Ca(SO4).2H2O)

CAS-No. 13397-24-5

15.2. International regulations

No additional information available

15.3. US State regulations

This product can expose you to Silica, crystalline (airborne particles of respirable size), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Issue date Revision date Other information Prepared by

: 12/19/2013 : 06/22/2021 : None. : Nexreg Compliance Inc.

www.Nexreg.com



Full text of H-phrases	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 1A	Carcinogenicity Category 1A
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1	Skin corrosion/irritation Category 1
Skin Sens. 1B	Skin sensitization, category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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