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SECTION	1. IDENTIFICATION					
	uct name uct code		erFlow 4316 0000005028	88115 000000000050288115		
Manu	afacturer or supplier's	details				
Com	Company name of supplier		: Master Builders-Construction Systems US, LLC			
Addre	Address		: 23700 CHAGRIN BLVD Beachwood OH 44122			
Emer	gency telephone		Tel: +1-813 per MIS9240	3-248-0585 USA: +1-800-255-3924 Contract 0420		
Reco	mmended use of the o	hemical a	nd restriction	ons on use		
Reco	mmended use	: Produ	ict for const	ruction chemicals		
Restr	ictions on use	: Rese	rved for indu	ustrial and professional use.		

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation	:	2
Serious eye damage/eye irritation	:	Category 1
Carcinogenicity (Inhalation)	:	1A (Lung)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	2 (Kidney, Immune system)
Specific target organ toxicity - single exposure	:	3 (Respiratory system)
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 1
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H318 Causes serious eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H335 May cause respiratory irritation.</li> <li>H350 May cause cancer.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure if inhaled.</li> </ul>

rsion )	Revision Date: 07/27/2020	SDS Number: 000000539831	Date of last issue: - Date of first issue: 07/27/2020
Preca	utionary Statements	face protection P201 Obtain sp P271 Use only P260 Do not bi P202 Do not ha and understood P270 Do not ea	becial instructions before use. outdoors or in a well-ventilated area. reathe dust or mist. andle until all safety precautions have been read
		for several min to do. Continue P304 + P340 II keep comfortal P303 + P352 II and water. P362 + P364 T reuse.	<ul> <li>INHALED: Remove person to fresh air and ble for breathing.</li> <li>ON SKIN (or hair): Wash with plenty of soap</li> <li>ake off contaminated clothing and wash it before</li> <li>exposed or concerned: Call a POISON</li> </ul>
		<b>Storage:</b> P403 + P233 S tightly closed. P405 Store loc	Store in a well-ventilated place. Keep container ked up.
		<b>Disposal:</b> P501 Dispose waste collectio	of contents/container to appropriate hazardous n point.
	<b>hazards</b> known.		

# Chemical nature

: No applicable information available.

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Cement, portland, chemicals	65997-15-1	>= 25 - < 75
calcium oxide	1305-78-8	>= 1 - < 7
Quartz (SiO2)	14808-60-7	>= 0 - < 3
Iron oxide	1309-37-1	>= 0 - < 10
magnesium oxide	1309-48-4	>= 0 - < 3
Limestone	1317-65-3	>= 0 - < 7
Silicon dioxide	7631-86-9	>= 1 - < 5
Calcium sulphate	7778-18-9	>= 0 - < 7
Gypsum (Ca(SO4).2H2O)	13397-24-5	>= 0 - < 3

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ECTION	4. FIRST AID MEASUR	RES	
Gene	ral advice	ance.	
lf inha	aled		ician after significant exposure. , place in recovery position and seek medical
In cas	e of skin contact	: If skin irritation	persists, call a physician. well with water. emove clothes.
In cas	e of eye contact	: Small amounts sue damage au In the case of o of water and so Continue rinsir Remove conta Protect unharn Keep eye wide	s splashed into eyes can cause irreversible tis- nd blindness. contact with eyes, rinse immediately with plent eek medical advice. ng eyes during transport to hospital. ct lenses.
lf swa	llowed	: Keep respirato Do NOT induce Do not give mi Never give any If symptoms pe	ry tract clear.
	important symptoms ffects, both acute and ed	: Causes skin in Causes seriou May cause res May cause car	ritation. s eye damage. piratory irritation. ncer. ge to organs through prolonged or repeated
Notes	to physician	: Treat symptom	natically.

Suitable extinguishing media Unsuitable extinguishing media		Foam Dry powder Water spray Carbon dioxide (CO2) High volume water jet
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.

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SECT	TION 6. ACCIDENTAL RELE		ES
t	Personal precautions, protec- ive equipment and emer- gency procedures	Avoid dust Avoid brea	
E	Environmental precautions	Prevent fur If the produ	oduct from entering drains. ther leakage or spillage if safe to do so. Ict contaminates rivers and lakes or drains inform authorities.
	Methods and materials for containment and cleaning up	: Neutralize Keep in su	with acid. table, closed containers for disposal.
SECT	TION 7. HANDLING AND ST	ORAGE	
	Advice on protection against ire and explosion	: Avoid dust Provide ap is formed.	formation. propriate exhaust ventilation at places where dust
,	Advice on safe handling	Do not bre Avoid expo Avoid cont For person Smoking, e plication ar Provide su	ficient air exchange and/or exhaust in work rooms. rinse water in accordance with local and national
(	Conditions for safe storage	: Keep conta place. Observe la Electrical ii	iner tightly closed in a dry and well-ventilated bel precautions. istallations / working materials must comply with ogical safety standards.
	Further information on stor-		should be stored tightly sealed in a dry place.

age conditions		
Materials to avoid	:	Segregate from metals. Segregate from acids and bases. Segregate from oxidants. Segregate from foods and animal feeds.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components CA	AS-No. Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
---------------	--	--	-------

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calciu	ım oxide	1305-78-8	TWA value	2 mg/m3	ACGIHTL
			REL value	2 mg/m3	NIOSH
			PEL	5 mg/m3	29 CFR 1910.1000 (Table Z-1
			TWA value	5 mg/m3	29 CFR 1910.1000 (Table Z-1
			TWA	2 mg/m3	ACGIH
			TWA	2 mg/m3	NIOSH RE
			TWA	5 mg/m3	OSHA Z-1
			TWA	5 mg/m3	OSHA P0
Iron o	xide	1309-37-1	TWA value (Respirable fraction)	5 mg/m3	ACGIHTL
			REL value (Dust and fume)	5 mg/m3 (iron (Fe))	NIOSH
			PEL (fumes/smok e)	10 mg/m3	29 CFR 1910.1000 (Table Z-1
			TWA value (fumes/smok e)	10 mg/m3	29 CFR 1910.1000 (Table Z-1
			TWA (Res- pirable par- ticulate mat- ter)	5 mg/m3	ACGIH
			TWA (dust and fume)	5 mg/m3 (Iron)	NIOSH RE
			TWA (Fumes)	10 mg/m3	OSHA Z-1
			TWA (total dust)	15 mg/m3	OSHA Z-1
			TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
			TWA (Fumes)	10 mg/m3	OSHA P0
magn	esium oxide	1309-48-4	TWA value (Inhalable fraction)	10 mg/m3	ACGIHTL
			PEL (Total particulate)	15 mg/m3	29 CFR 1910.1000 (Table Z-1
			TWA value (Total partic- ulate)	10 mg/m3	29 CFR 1910.1000 (Table Z-1
			TWA (Inhal- able particu- late matter)	10 mg/m3	ACGIH
			TWA (fume, total particu- late)	15 mg/m3	OSHA Z-1

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			total particu- late)		
Limes	stone	1317-65-3	REL value (Respirable)	5 mg/m3	NIOSH
			REL value (Total)	10 mg/m3	NIOSH
			PEL (Respir- able fraction)	5 mg/m3	29 CFR 1910.100 (Table Z-2
			PEL (Total dust)	15 mg/m3	29 CFR 1910.100 (Table Z-2
			TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.100 (Table Z-2
			TWA value (Total dust)	15 mg/m3	29 CFR 1910.100 (Table Z-2
			TWA (total dust)	15 mg/m3	OSHA Z-
			TWA (respir- able fraction)	5 mg/m3	OSHA Z-2
		TWA (Total dust)	15 mg/m3	OSHA P0	
			TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
			TWA (Res- pirable)	5 mg/m3 (Calcium car- bonate)	NIOSH RI
			TWA (total)	10 mg/m3 (Calcium car- bonate)	NIOSH RI
Silicor	n dioxide	7631-86-9	REL value	6 mg/m3	NIOSH
			TWA value	6 mg/m3	29 CFR 1910.100 (Table Z-′
			TWA value	20 millions of particles per cubic foot of air	29 CFR 1910.100 (Table Z-3
			TWA value	0.8 mg/m3	29 CFR 1910.100 (Table Z-3
			TWA (Dust)	20 Million parti- cles per cubic foot (Silica)	OSHA Z-3
			TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
			TWA (Res- pirable dust)	0.05 mg/m3 (Silica)	NIOSH R
			TWA	6 mg/m3 (Silica)	NIOSH R
Calci	ım sulphate	7778-18-9	TWA value	10 mg/m3	ACGIHTL

rsion	Revision Date: 07/27/2020	SDS Number: 000000539831	Date of las Date of firs	t issue: - t issue: 07/27/202	0
			(Inhalable fraction)		
			REL value (Respirable)	5 mg/m3	NIOSH
			REL value (Total)	10 mg/m3	NIOSH
			PEL (Respir- able fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
			PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
			TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-
			TWA value (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-
			TWA (Res- pirable)	5 mg/m3	NIOSH RE
			TWA (total)	10 mg/m3	NIOSH RE
			TWA (total dust)	15 mg/m3	OSHA Z-1
			TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
			TWA (Total dust)	15 mg/m3	OSHA P0
			TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
			TWA (Inhal- able particu- late matter)	10 mg/m3 (Calcium)	ACGIH
Gyps	um (Ca(SO4).2H2O)	13397-24-5	TWA value (Inhalable fraction)	10 mg/m3	ACGIHTL\
			REL value (Respirable)	5 mg/m3	NIOSH
			REL value (Total)	10 mg/m3	NIOSH
			PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
			PEL (Respir- able fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
			TWA value (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-
			TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-
			TWA (Res- pirable)	5 mg/m3	NIOSH RE

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			2 410 01 110		
			TWA (total)	10 mg/m3	NIOSH REL
			TWA (total dust)	15 mg/m3	OSHA Z-1
			TWA (respir- able fraction)	5 mg/m3	OSHA Z-1
			TWA (Total dust)	15 mg/m3	OSHA P0
			TWA (respir- able dust fraction)	5 mg/m3	OSHA P0
			TWA (Inhal- able particu- late matter)	10 mg/m3 (Calcium)	ACGIH
Quart	z (SiO2)	14808-60-7	TWA value (Respirable fraction)	0.025 mg/m3	ACGIHTLV
			TWA value	0.05 mg/m3 (Respirable dust)	29 CFR 1910.1001- 1050
			OSHA Action level	0.025 mg/m3 (Respirable dust)	29 CFR 1910.1001- 1050
			REL value (Respirable dust)	0.05 mg/m3	NIOSH
			TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1
			TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3
			TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3
			TWA (respir- able dust fraction)	0.1 mg/m3	OSHA P0
			TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH
			PEL (respir- able)	0.05 mg/m3	OSHA CARO
			TWA (Res- pirable dust)	0.05 mg/m3 (Silica)	NIOSH REL
Ceme	ent, portland, chemicals	65997-15-1	TWA value (Respirable fraction)	1 mg/m3	ACGIHTLV
			REL value (Total)	10 mg/m3	NIOSH
			REL value (Respirable)	5 mg/m3	NIOSH
			PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
			PEL (Respir- able fraction)	5 mg/m3	29 CFR 1910.1000

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					(Table Z-1)	
			TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-/	
			TWA value (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1-/	
			TWA value	50 millions of particles per cubic foot of air	29 CFR 1910.1000 (Table Z-3)	
			TWA (Res- pirable par- ticulate mat- ter)	1 mg/m3	ÂCGIH	
			TWA (Res- pirable)	5 mg/m3	NIOSH REL	
			TWA (total) TWA (total dust)	10 mg/m3 15 mg/m3	NIOSH REL OSHA Z-1	
			TWA (respir- able fraction)	5 mg/m3	OSHA Z-1	
			TWA (Total dust)	10 mg/m3	OSHA P0	
			TWA (respir- able dust fraction)	5 mg/m3	OSHA PO	
			TWA (Dust)	50 Million parti- cles per cubic foot	OSHA Z-3	
Quart	z (SiO2)	14808-60-7	TWA value (Respirable fraction)	0.025 mg/m3	ACGIHTLV	
			REL value (Respirable dust)	0.05 mg/m3	NIOSH	
			TWA value	0.05 mg/m3 (Respirable dust)	29 CFR 1910.1001- 1050	
			OSHA Action level	0.025 mg/m3 (Respirable dust)	29 CFR 1910.1001- 1050	
			TWA (Res- pirable dust)	0.05 mg/m3	OSHA Z-1	
			TWA (respir- able)	10 mg/m3 / %SiO2+2	OSHA Z-3	
			TWA (respir- able)	250 mppcf / %SiO2+5	OSHA Z-3	
			TWA (respir- able dust fraction)	0.1 mg/m3	OSHA P0	
			TWA (Res- pirable par- ticulate mat- ter)	0.025 mg/m3 (Silica)	ACGIH	
			PEL (respir-	0.05 mg/m3	OSHA CAR	

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				able) TWA (Res-	0.05 mg/m3	NIOSH REL
				pirable dust)	(Silica)	
Engi	neering measures	:	Provide local P.E.L.	exhaust ventilati	on to maintain recom	mended
Pers	onal protective equip	ment				
Resp	iratory protection	:		tection if dusts a H-certified (or ec	re formed. quivalent) particulate	respirator.
Hand	protection			, ,	. , .	·
Re	emarks	:		for a specific we	orkplace should be di active aloves.	scussed
Eye p	protection	:	Eye wash both Tightly fitting s	le with pure wat afety goggles	5	processing
Skin	and body protection	:	Choose body		ding to the amount a ubstance at the work	
Prote	ective measures	:		with the skin, ey	es and clothing.	
			In order to pre working clothe	event contaminates and working good	tion while handling, c gloves should be used od building materials	d.
Hygie	ene measures	:	When using d When using d	o not eat or drin o not smoke.	k. Id at the end of workd	lay.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	gray
Odor Threshold	:	Not determined due to potential health hazard by inhalation.
рН	:	13 (68 °F / 20 °C) (as aqueous solution)
Boiling point	:	No applicable information available.
Flash point	:	does not flash
Evaporation rate	:	No applicable information available.
Flammability (solid, gas)	:	not determined
Self-ignition	:	not self-igniting
Upper explosion limit / Upper flammability limit	:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

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		explosion limit / Lower bility limit	:	knowledge of its	experience with this product and our composition we do not expect any hazard as ict is used appropriately and in accordance use.
١	Vapor p	pressure	:	No applicable inf	ormation available.
F	Relative	e vapor density	:	No applicable infe	ormation available.
F	Relative	e density	:	No applicable inf	ormation available.
	Bulk de Solubili		:	1.25 g/m3	
,		er solubility	:	insoluble (59 °F	/ 15 °C)
	Solu	bility in other solvents	:	No applicable inf	ormation available.
	Partitio	n coefficient: n- /water	:	No applicable inf	ormation available.
		ition temperature	:	No applicable inf	ormation available.
[	Decomposition temperature		:	No decompositio scribed/indicated	n if stored and handled as pre-
١	Viscosi	5			
	Visc	osity, dynamic	:	No applicable inf	ormation available.
	Visc	osity, kinematic	:	No applicable inf	ormation available.
E	Explosi	ve properties	:	Not explosive	
(	Oxidizir	ng properties	:	Not an oxidizer.	
ŝ	Self-he	ating substances	:	No data available	)
S	Sublima	ation point	:	No applicable inf	ormation available.
ſ	Molecu	lar weight	:	No data available	

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability		No decomposition if stored and applied as directed. No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed.
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.

### SAFETY DATA SHEET

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ECTION	11. TOXICOLOGICA	L INFORMATION	
	e toxicity lassified based on ava	ailable information.	
	corrosion/irritation es skin irritation.		
	us eye damage/eye es serious eye damag		
Resp	iratory or skin sensi	tization	
-	sensitization lassified based on ava	ailable information.	
-	iratory sensitization lassified based on ava		
<u>Produ</u> Rema			is product has been reduced. Sensitization du thin stated shelf-live is unlikely.
	<b>cell mutagenicity</b> lassified based on ava	ilable information	
	nogenicity		
	cause cancer.		
-	oductive toxicity lassified based on ava	ailable information.	
	<b>-single exposure</b> cause respiratory irrita	ation.	
	<b>F-repeated exposure</b> es damage to organs		epeated exposure if inhaled.
-	ation toxicity lassified based on ava	ailable information.	
Furth	er information		
<u>Produ</u> Rema			s not been tested. The statement has been e properties of the individual components.
ECTION	12. ECOLOGICAL IN	FORMATION	
Ecoto	oxicity		
Produ	-		

#### Ecotoxicology Assessment

Acute aquatic toxicity : This

: This product has no known ecotoxicological effects.

### SAFETY DATA SHEET

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Chron	ic aquatic toxicity	:	This product h	as no known ecotoxicological effects.	
ernen					
Persis	stence and degrada	bility			
<u>Produ</u>					
Biode	gradability	:	Remarks: not	applicable	
Bioac	cumulative potentia	ıl			
<u>Produ</u>	<u>ict:</u>				
Bioaccumulation			Remarks: The product will not be readily bioavailable due to its consistency and insolubility in water.		
Comp	oonents:				
	nt, portland, chemio	als:			
	on coefficient: n- ol/water		GLP: no Remarks: not a	applicable	
calciu	ım oxide:				
	on coefficient: n- bl/water		Remarks: The substance is ir	value has not been determined because the organic.	
Quart	z (SiO2):				
	on coefficient: n- ol/water	:	Remarks: not	applicable	
Iron o	xide:				
	on coefficient: n- ol/water	:	Remarks: Stud	ly scientifically not justified.	
magn	esium oxide:				
	on coefficient: n- ol/water	:	Remarks: No o	lata available.	
Silico	n dioxide:				
	on coefficient: n- ol/water	:	Remarks: not	applicable	
Calciu	um sulphate:				
	on coefficient: n- bl/water	-	GLP: no Remarks: The substance is ir	value has not been determined because the organic.	
Gyps	um (Ca(SO4).2H2O)	:			
	on coefficient: n- bl/water		Remarks: The substance is ir	value has not been determined because the organic.	
Mobil	ity in soil				
Produ	-				

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Distribution among environ- mental compartments		:	particles is probal is not expected.	ng exposure to soil, adsorption to solid soil ble, therefore contamination of groundwater Il not evaporate into the atmosphere from	
C	Other a	adverse effects			
F	Produc Results assess	of PBT and vPvB	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or id very bioaccumulative (vPvB) at levels of
	Addition mation	nal ecological infor-	:	in water and soil (	e values of impurities of effluents discharged according regulation of ministry of the envi- /ember, 18th , 2014, law gazette pos. 1800
				The product has r	product into the environment without control. not been tested. The statements on ecotoxi- derived from the properties of the individual

#### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	: Do not contaminate ponds, waterways or ditches with chemi- cal or used container.
	Dispose of in accordance with national, state and local regula- tions. Do not discharge into drains/surface waters/groundwater.
Contaminated packaging	: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the sub- stance/product.

#### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

# UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### **Domestic regulation**

#### 49 CFR

### SAFETY DATA SHEET

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Not re	Not regulated as a dangerous good							
SECTION	15. REGULATORY I	NFORMATION						
US S	tate Regulations							
Penn	sylvania Right To K	now						
	calcium oxide Iron oxide magnesium oxid Limestone Silicon dioxide Calcium sulphate Gypsum (Ca(SC) Quartz (SiO2) Cement, portlane Quartz (SiO2)	e 4).2H2O)	1305-78-8 1309-37-1 1309-48-4 1317-65-3 7631-86-9 7778-18-9 13397-24-5 14808-60-7 65997-15-1 14808-60-7					
New	Jersey Right To Kno	w						
	calcium oxide magnesium oxid Limestone Calcium sulphate Cement, portland Quartz (SiO2)	e	1305-78-8 1309-48-4 1317-65-3 7778-18-9 65997-15-1 14808-60-7					

#### California Prop. 65

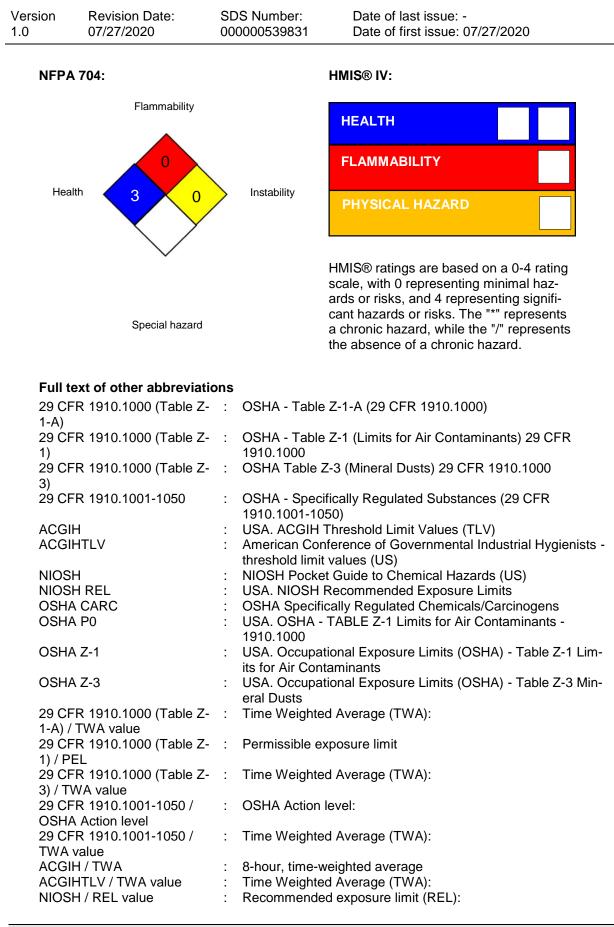
WARNING: This product can expose you to chemicals including Quartz (SiO2), which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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

DSL	: All components of this product are on the Canadian DSL
TSCA	: All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

#### **SECTION 16. OTHER INFORMATION**

**Further information** 



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NIOSH REL / TWA		: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek			
OSHA CARC / PEL		: Permissible exposure limit (PEL)			
OSHA P0 / TWA		: 8-hour time weighted average			
OSHA Z-1 / TWA			8-hour time weighted average		
OSHA Z-3 / TWA		: 8-hour time w	8-hour time weighted average		

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance 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

**Revision Date** 

: 07/27/2020

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