Material Safety Data Sheet

IDENTITY (As Used on Label and List)

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072



Freshly Mixed Unhardened Concrete	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Section I	
Manufacturer's Name Baker-Shindler Ready Mix Address (Number Street City Of the Otto	Emergency Telephone Number 419- 782-5080
Address (Number, Street, City, State, and ZIP Code) 525 Cleveland Avenue	Telephone Number for Information 419- 782- 5080
Defiance, OH 43512	Date Prepared 11–14–2008
	Signature of Preparer (optional)
Section II - Hazardous Ingredients/Identity	
(Specific Chemical Identity: Common Name (1)	Other Limits
Formula - Mixtures of Portland or blended cements, co Portland and Blended Cements:	ncrete aggregates and chemical admixtures.
Tricalcium Silicate (3CaO·SiO ₂) (C	CAS # 12168-85-3)

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits	
Formula - Mixtures of Portland or blended cements Portland and Blended Cements:	concrete agg	regates and chem	Recommended % (optional)
Tricalcium Silina (C.C.)		U =	iodi admixtures.	
Tricalcium Silicate (3CaO·SiO ₂)	(CAS # 12168	3-85-3)		
Dicalcium Silicate (2CaO•SiO ₂)	(CAS # 10034	1-77-2)		
Tricalcium Aluminate (3CaO·Al ₂ O ₃)	(CA S # 2304.	2-78-31		
Tetracalcium Aluminoferrite (4CaO•Al203• Fe203)	(CAS # 12068	2.35_8)		
Calcium Sulfate Dihydrate (CaSO 192420) (C	/ / ·	CHARLES THE PARTY OF THE PARTY		
Plus traces of Calcium Oxide (CaO), Magnesium Oxide (and Sodium Sulfate (Na2SO4)	(MgO), Potassii	um Sulfate (K2SO4),	15 Mg/M ³ Total Dust	
Other Ingredients:			5 Mg/M ³ Respirable Fro	action
Concrete Aggregates, Inert grovel sand and and				
Admixtures may include fly ash, granulated slag and very the hazards associated with the use of the product	small amounts	of organic and inor	ganic materials which have	e no effect

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Chaoife O. V. W.	
Vapor Pressure (mm Hg.)	N/A	Specific Gravity (H ₂ 0 = 1)	2.28 - 2.42
Vapor Density (AIR + 1)	10777	Melting Point	N/A
Solubility in Water	N/A	Evaporation Rate (Butyl Acetate - 1)	
Appearance and Odor	Bitght (0. 01 to 1%)	Ph for Plastic Concrete	N/A
Section IV - Fire and Explo	1 (-1/031 20 / 20-4: - () 17	e, granular composite - Faint odor	12.5

Flash Point (Method Used)	N/A	Flammable Limits	LEL NI	UEL	
Extinguishing Media	IV/M	N	J/A	N/A	N/A
Special Fire Fighting Procedures	N.	'A			
Inusual Fire and Explosion Hazar	N	'A			
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Section V - Reactivity Data

Stability	Unstable Stable		Conditions to Avoid	However, product stiffens and hardens in 2 to 8 hours
Incompatibility ((Materials to Avoid	$\frac{1}{\lambda}$		and is no longer hazardous
		Non	$e^{-i\omega_{0}}$	
Hazardous Dec	composition of Byp	oducts		
				few hours and then does not decompose
H0705000	6.0			
Hazardous Polymerization	May Occur		Conditions to Avoid	nours and then does not decompose

Route(s) of Entry:						
Health Hazards (Acute and	Inhalation?	NO	Skin? YES	Ingestion?		
Acute - Wet plastic, unhardene	Chronic)			NO		

Acute - Wet plastic, unhardened concrete can dry the skin and cause alkali burns

Chronic - Hypersensitive individuals may develop an allergic dermatitis - Portland cement may contain trace amounts of chromium IARC Monographs? NO

Carcinogenic Potential: Concrete frequently contains crystalline silica in concentrations greater than 0.1%, principally contributed by the aggregates. Respirable crystalline silica is classified by IARC (International Agency for Research on Cancer) as a known human carcinogen and by NTP (National Toxicology Program) as "reasonably anticipated to be a carcinogen." Crystalline silica in wet concrete is not respirable and does not pose a hazard when the concrete is in its plastic or unhardened state. Once concrete has hardened, long term exposure to airborne dust generated by grinding, sawing, drilling or breaking of hardened concrete, could potentially lead to hazardous exposures to workers and subsequent health related problems. Appropriate respiratory protection Signs and Symptoms of Exposure

Irritation of skin and burning sensation particularly when exposure is in an area of skin previously subjected to abrasion or irritation Medical Conditions Generally Aggravated by Exposure

Open wounds or sores

Emergency and First Aid Procedures

Irrigate eyes with water. Wash exposed areas of the body with soap and water - change clothing if contaminated with wet concrete

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Spill does not increase hazard

Waste Disposal Method

Material can be retained until it hardens when it can be disposed of as a common waste

Precautions to Be Taken in Handling and Storing

Use barrier creams, gloves, boots and clothing to protect the skin from prolonged contact with plastic concrete. Particularly avoid Other Precautions

Precautions must be observed because cement burns occur with little warning - little heat is sensed. Eye protection is not generally required, except when placing methods cause splash, then tight fitting goggles should be used. Section VIII - Control Measures

Respiratory Protection (Specify Ventilation N/A			
17//	Local Exhaust None	Special None	
Protective Gloves Yes - water	Mechanical (General) None	Other N/4	
Other Protective Clothing or Equ		Yes tight Gu:	
Vork/Hygienic Practices	Avoid contact between skin/eyes and wet/moist co	and full 1	