MATERIAL SAFETY DATA SHEET

McKeown International,Inc. Suite 240 1106 South Mays Street Round Rock, TX USA 78664		Emergency Telephone #: (512) 828-3138	
Product Name:	Ultradol 75	Product Name:	
1	Section 2 - Ma	aterial Description A	nd Use
Chemical Name:	Calcium Oxide and Magnesiu	ım Oxide	
Chemical Formula:	CaO + MgO		
Chemical Additives:	MgO enriched		
Product Use:	Refractory Brick:		

Section 3 - Hazardous Ingredients

Paints, Preservatives, & Solvents	%	TLV	Alloys And Metallic	%	TLV
Pigments			Base metal		
Catalyst			Alloys		
Vehicle			Metallic coatings		
Solvents			Filler metal or core flux		
Additives			Others		
Others					
Hazardous Mixtures of Other Solvents			%	CAS#	
Calcium Oxide (CaO)			18 ~ 22	1305-78-8	
Magensia Oxide (MgO)			72 ~ 80	1309-48-4	
Alumininum Oxide (Al2O3)			~0.6	1344-28-1	
Iron Oxide(Fe2O3)			~1.12	1332-37-2	
Quartz (SiO2)			~0.8	14808-60-7	
Ignition Loss				~2.35	

	Section 4 - First Aid Measures			
Emergency and First Aid	skin contact:	Wash with water. Consult physician if persists		
Procedures:	eye contact: Immediately flush w/ water. Consult physi	Immediately flush w/ water. Consult physician if persists		
	Inhalation:	Avoid prolonged inhalation of dust from cutting, grinding.		
		Overexposure to dust may lead to permanent lung inquiry (silicosis)		
	Ingestion:	Don't ingest may cause irritation		
	Chronic effects:	This product has the potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumocononiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled		

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Section 5 - Fire and Explosion Hazard Data

4/6/2012

Flash Point:			of resin:	N/A	
Ignition Temperature:			of resin: N/	4	
Hazardous Decompostion:		None			
Thermal Decomposition:			of resin N	/A	
Flammable Explosion Limits:	upper:	None			
	lower:	None			
Hazardous Reactions:		None			
Extinguishing Media:	suitable:	Dry, non-a	acidic chen	nical,	carbon dioxide
not to	be used:	Water			
Special Fire Fighting Procedure	es:	None			
Unusual Fire and Explosion Ha	zards:	None			
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Product Name: Ultradol	75		Product Na	ame:	

Section 6 - Accidental Release Measures

Steps To Be Taken In Case Material is Released or Spilled: Use any convenient dry clean-up method -- scoop, shovel, etc. Avoid contact with skin. Avoid generating dust

Section 7 - Handling and Storage

Technical Protective Measures:	Protect material from humidity and exposure to water
	Provide local exhaust at brick saw
Industrial Hygiene:	Remove contaminated clothing
Protection against Fire and Expl (Handling & Storing)	osion: None

Section 8 - Health Hazard Data and Protective Measures

Threshold Limit Value:	5 mg/m^3 for dust generat	ted by cutting	
Effects of Overexposure:	Dust can irritate eyes, skin	n, and mucuous membrane	
Personal Protective Equipmen	t: respiratory:	dust mask, if condition w	varrants
	eye:	safety glasses with sides	hields
	hand:	abrasive resistant gloves	5
	other:	steel toe boots	
US. ACGIH Threshold Limits V	/alues		
Components Aluminium Oxide (1344-28-1)	Type TWA	Value 1 mg/m³	Form Respirable Fraction
Glass, Oxide, Chemicals	TWA	1 fibers/cm ³	Fiber
Quartz (SiO2) (14808-60-7)	TWA	0.025 mg/m³	Respirable fraction
US. OSHA Table Z-1 Limits for	r Air Contaminants (29 CFR 191	0.1000)	
Components	Туре	Value	Form
Aluminium Oxide	PEL	5 mg/m3	Respirable fraction
US. OSHA Table Z-3 (29 CFR	1910.1000)		
Components	Туре	Value	Form
Quartz (SiO2) (14808-60-7)	TŴA	0.3 mg/m3 0.1 mg/m3 2.4 mppcf	Total dust Respirable Respirable
Exposure guidelines	Occupational exposure to nuis crystalline silica should be mo	sance dust (total and respirable nitored and controlled.) and respirable

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		Section 9 - Physical Data	
Physical Form:	shaped brick	Density:	3.40 g/cm^3
Boiling Temp:	N/A	Bulk Density:	2.98~3.02 g/cm^3
Freeze-Melt Temp:	>2000℃	Water Solubility:	1.18 g/l (CaO), 0℃
Vapor Pressure:	N/A	pH:	12,4 at 20℃, 1.18 g/l (CaO)
Viscosity:	N/A	Color:	Brown
Evaporation Rate:	N/A	Odor/Threshold:	None/ N/A
Specific Gravity:	3.40 g/cm^3	Coeff. Water/Oil Distrib .:	N/A
		Section 10 - Reactivity Data	
Stability	stable: X unstable:	Conditions to avoid:	
Hazardous	may occur:	Conditions to avoid:	
Polymerization	will not: X		
-			
	S	ection 11 - Information on Toxicity	
circumstances stu silica or on extern Monographs on th organic fibres, 199 Scientific Commit inhalation of respi the relative risk of without silicosis e onset of silicosis of the current state of the existing regula respirable crystall	al factors affecting its al factors affecting its ne evaluation of the c 97, Vol. 68, IARC, Ly tee on Occupational rable crystalline silica fung cancer is increat xposed to silica dust will also reduce the ca of the art, worker prot atory occupational ex ine silica should be n	we are calculated in the second end of the secon	acteristics of the crystalline polymorphs." (IARC ans, Silica, silicates dust and 2003, SCOEL (the EU nain effect in humans of the information to conclude that parently, not in employees y). Therefore, preventing the nal, June 2003) According to ently assured by respecting to respirable dust and
ACGIH Carcinog Aluminium Oxide Diiron Trioxide (C Glass, Oxide, Che Magnesium Oxide Quartz (SiO2) (CA	ens (CAS 1344-28-1) AS 1309-37-1) emicals (CAS 65997- e (CAS 1309-48-4) AS 14808-60-7)	A4 Not classifiable as A4 Not classifiable as A3 Confirmed animal relevance to humans. A4 Not classifiable as A4 Not classifiable as A2 Suspected human	a human carcinogen a human carcinogen. carcinogen with unknown a human carcinogen a human carcinogen. carcinogen.
IARC Monograp	ohs. Overall Evalua	tion of Carcinogenicity	
Diiron Trioxide (C Glass, Oxide, Che	AS 1309-37-1) emicals (CAS 65997-	3 Not classifiable as tr 17-3) 3 Not classifiable as tr	ວ carcinogenicity to humans. ວ carcinogenicity to humans.

US NTP Report on Carcinogens: Anticipated carcinogen

GLASS WOOL FIBERS (INHALABLE), CERTAIN Reasonably Anticipated to be a Human Carcinogen (CAS 65997-17-3)

US NTP Report on Carcinogens: Known carcinogen

SILICA, CRYSTALLINE (RESPIRABLE SIZE) (CAS 14808-60-7)

Known To Be Human Carcinogen

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Section 12 - Information on Ecological Effects

Calcium Oxide (CaO) endangers fishlife

Section 13 - Disposal Considerations

Waste Disposal Method:

If reuse and recycling is not possible or practiced, material may be disposed of at a sanitary landfill Not Federally Regulated as a hazardous waste

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Section 14 - Transport Information

DOT. Not regulated as dangerous goods.

Section 15 - Regulatory Information

Chemical components have been reported to the EPA Office of Toxic Substances in accordance with the requirements of the Toxic Substance Control Act. This material contains no ingrediets listed on the Extremely Hazardous or CERCLA Lists

State regulations WARNING: This product contains a chemical known to the State of California to cause cancer. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988 Carcinogenic

Section 16 - Special Precautions and Other Information

Re-seal remaining material with packaging provided
Health: 3*
Flammability: 0
Physical hazard: 1
NFPA rating
Health: 3
Flammability: 0
Instability: 1