

MESBAREH COMPANY

Material safety Data Sheet

II. Chemical Ingredients Composition: 100% Copper Slag (Complex silicates and oxides of iron, silica, calcium, and aluminum)

Chemical Ingredients							
	6					ACGIH	
			-				
						5	
						10	
						10	
						2	
						10	
	Crystalline Silica (SiO ₂)	480-86-07	<0.1	0.1	0.1	0.1	
	including arsenic (As) - typ =0.01 mg/ m3; and lead (TLV =0.05 mg/ m3. Under ventilation), OSHA PELs co	vically <0.002% I Pb) - typically <0 extreme conditi ould be exceeded	by weight; Fed an .002% by weight ons (e.g. sandbla d. In these situati	d CA OSHA PEL = ; Fed and CA OSH/ sting in a confined ons, employee ex	0.01 mg/ m3, A A PEL= 0.05 mg d space without posure monitor	ACGIH TLV g/ m3; ACGIH sufficient	
Physical /Chemical Properties				•	lbs/ft ³		
	Appearance & Odor: Dull	l Black, Odorles	ss Vapor P	ressure: N/A			
	Boiling Point: N/A		Vapor D	ensity: N/A			
	Melting Point: Over 200	0° F	Evapora	tion Rate: N/A			
Fire & Evolosion	Elach Point: N/A		Lower F	vplosivo Limite N	1/0		
•							
Hazalu Dala							
		'A			edures · N/A		
	Unusual Fire and Explosion Hazards: N/A						
Reactivity Data	Stability: Stable Incompatibility (Materials to Avoid): Strong mineral acids Hazardous Thermal Decomposition Products: None expected Polymerization: Will Not Occur						
	Properties Fire & Explosion Hazard Data	Including arsenic (As) - typ =0.01 mg/ m3; and lead (TLV =0.05 mg/ m3. Under ventilation), OSHA PELs co performed to determine exPhysical /Chemical PropertiesPhysical State: Granular Specific Gravity: 3.4 - 3. Appearance & Odor: Dull Boiling Point: N/A Melting Point: Over 200Fire & Explosion Hazard DataFlash Point: N/A Autoignition Temparature Fire Hazard: N/A Extinguishing Media: N/ Unusual Fire and ExplosionReactivity DataStability: Stable Incompatibility (Material Hazardous Thermal Decomposition Temparature Stability: Stable Stability: Stable	Iron (Fe)1309-37-1Silica (SiO2)7440-21-3Aluminum Oxide (Al2O3)1344-28-1Calcium Oxide (CaO)1305-78-8Magnesium Oxide (MgO)1309-48-4Crystalline Silica (SiO2)480-86-07Please note that this product may contain including arsenic (As) - typically ‹0.002% I =0.01 mg/ m3; and lead (Pb) - typically ‹0.002% I =0.01 mg/ m3; and lead (Pb) - typically ‹0.002% I =0.01 mg/ m3; and lead (Pb) - typically ‹0.002% I =0.01 mg/ m3; and lead (Pb) - typically ‹0.002% I =0.05 mg/ m3. Under extreme conditi ventilation), OSHA PELs could be exceeded performed to determine exposure levels. YPhysical /Chemical PropertiesPhysical State: Granular Specific Gravity: 3.4 - 3.6 Appearance & Odor: Dull Black, Odorles Boiling Point: N/A Melting Point: Over 2000° FFire & Explosion Hazard DataFlash Point: N/A Autoignition Temparature: N/A Fire Hazard: N/A Extinguishing Media: N/A Unusual Fire and Explosion Hazards: NReactivity DataStability: Stable Incompatibility (Materials to Avoid): Str Hazardous Thermal Decomposition Prod	Iron (Fe)1309-37-130-35Silica (SiO2)7440-21-335-45Aluminum Oxide (Al2O3)1344-28-15-15Calcium Oxide (CaO)1305-78-80-10Magnesium Oxide (MgO)1309-48-41Crystalline Silica (SiO2)480-86-07(0.1Please note that this product may contain some heavy metricincluding arsenic (As) - typically (0.002% by weight; Fed an=0.01 mg/ m3; and lead (Pb) - typically (0.002% by weight; TU = 0.05 mg/ m3. Under extreme conditions (e.g. sandblaventilation), OSHA PELs could be exceeded. In these situatiperformed to determine exposure levels. You can contact uPhysical /ChemicalPropertiesPhysical State: GranularBoiling Point: N/AAppearance & Odor: Dull Black, OdorlessVapor DMelting Point: Over 2000° FEvaporaFire & ExplosionHazard DataFire Hazard: N/ALower EFire Hazard: N/AExtinguishing Media: N/AStability: StableIncompatibility (Materials to Avoid): Strong mineral aciHazardous Thermal Decomposition Products: None explosition	Component Iron (Fe)C.A.S. # 130-35% Weight Weight PEL (mg/m ³)Iron (Fe)1309-37-1 30-3530-3510Silica (SiO_2)7440-21-3 315-4535-4515Aluminum Oxide (Al ₂ O ₃)1344-28-1 315-78-85-1515Calcium Oxide (CaO)1305-78-80-105Magnesium Oxide (MgO)1309-48-4(115Crystalline Silica (SiO_2)480-86-07(0.10.1Please note that this product may contain some heavy metals in quantities le including arsenic (As) - typically <0.002% by weight; Fed and CA OSHA PEL = =0.01 mg/ m3; and lead (Pb) - typically <0.002% by weight; Fed and CA OSHA TLV =0.05 mg/m3. Under extreme conditions (e.g. sandblasting in a confined ventilation), OSHA PELs could be exceeded. In these situations, employee experformed to determine exposure levels. You can contact us for further informPhysical /Chemical PropertiesPhysical State: Granular Specific Gravity: 3.4 - 3.6Bulk Density: 110 - 120 pH: N/A Vapor Density: N/A Vapor Density: N/A Kevaporation Rate: N/A Vapor Density: N/A Kevaporation Rate: N/A Vapor Density: N/A Evaporation Rate: N/A Vapor Density: N/A Extinguishing Media: N/A Special Fire Fighting Proc Unusual Fire and Explosion Hazards: N/ALower Explosive Limit: N Explosion Hazard: N/A Special Fire Fighting Proc Unusual Fire and Explosion Hazards: N/AReactivity DataStability: Stable Incompatibility (Materials to Avoid): Strong mineral acids Hazardous Thermal Decomposition Products: None expected	ComponentC.A.S. #% WeightPEL (mg/m ³)PEL (mg/m ³)Iron (Fe)1309-37-130-35105Silica (SiO2)7440-21-335-45156Aluminum Oxide (Al2O3)1344-28-15-151510Calcium Oxide (CaO)1305-78-80-1052Magnesium Oxide (MgO)1309-48-4(11510Crystalline Silica (SiO2)480-86-070.10.10.1Please note that this product may contain some heavy metals in quantities less than 0.1% bincluding arsenic (As) - typically 0.002% by weight; Fed and CA OSHA PEL = 0.01 mg/ m3, 40 lead (Pb) - typically 0.002% by weight; Fed and CA OSHA PEL = 0.01 mg/ m3, 40 lead (Pb) - typically 0.002% by weight; Fed and CA OSHA PEL = 0.01 mg/ m3, 40 lead (Pb) - typically 0.002% by weight; Fed and CA OSHA PEL = 0.05 mgTV =0.05 mg/ m3. Under extreme conditions (e.g. sandblasting in a confined space without ventilation), 0.34 PELs could be exceeded. In these situations, employee exposure monitor performed to determine exposure levels. You can contact us for further information.Physical /Chemical PropertiesPhysical State: Granular Specific Gravity: 3.4 - 3.6Bulk Density: 110 - 120 lbs/ft ³ Specific Gravity: 3.4 - 3.6PH: N/AVapor Pressure: N/AVapor Pressure: N/AAutoignition Temparature: N/AUpper Exposure Limit: N/ALower Explosive Limit: N/AHazard DataFlash Point: N/ALower Explosive Limit: N/AExplosion Hazard: N/AStability: StableIncompatibility (Materials to Avoid): Strong mineral acids Hazardous Thermal Decomposition Products: None expected	

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VI.	Health Hazard Data	Proper precautions should be taken to avoid any health hazard. A health hazard may occur if limits for air contaminants exceed PEL limits as per 29 CFR 1910.1000. Proper engineering controls and ventilation should be used to prevent air contaminants from exceeding PEL limits. NIOSH-approved respirators should be used during all abrasive blasting operations. (For information on potentially hazardous elements refer to Section 2.)
		Usual Route(s) of Entry: Inhalation of dust during handling or use Medical Conditions Possibly Aggravated by Exposure: Chronic diseases or disorders of the respiratory system.
-	First Aid and Medical Emergency Procedures	Eye Contact: Not anticipated to pose an acute or significant eye contact hazard. In the event of eye contact, flush eyes with generous amounts of water.
		Skin Contact: Not anticipated to pose an acute or significant skin contact hazard. Wash with soap and water as needed to remove from skin
		Inhalation: Not anticipated to pose an acute or significant inhalation hazard if proper work practices are employed to maintain dust exposure below OSHA PEL's. If overexposure occurs, remove individual to area with fresh air until symptoms cease.
		Ingestion: Not considered to be an ingestion hazard.
VIII. Precautions for Safe	Precautions for Safe Handling and Use	Procedures to Follow if Material is Released or Spilled: Using appropriate personnel protective equipment, material should be swept or vacuumed or otherwise collected into appropriate containers.
	nanating and ose	Waste disposal method(s): Landfill disposal or other methods which are in accordance with local, state and federal regulations. Virgin (unused and uncontaminated) material does not exceed the Toxicity Characteristic Leaching Procedure (TCLP) hazardous waste limits per 40 CFR 261.3. Used or contaminated material should be tested in accordance with 40 CFR 262.11 or any applicable local or state regulations to determine if it is a hazardous waste and disposed of accordingly.
IX.	Control Measures	Engineering Controls (Ventilation, etc) : Ventilation should be sufficient to maintain dust levels below applicable exposure limit.
		Work Practices (Handling & Storage, etc.): Avoid creating airborne dust during handling and use.
		Eye Protection: Safety glasses, goggles or face shields are recommended during abrasive blasting or when dust levels are excessive.
		Skin Protection: Gloves and long-sleeved clothing are recommended during abrasive blasting or when dust levels are excessive.
		Respiratory Protection: When engineering controls are not sufficient to lower dust levels below the applicable exposure limit, use a NIOSH-approved respirator. NIOSH-approved respirators should be used during all abrasive blasting operations in accordance with 29 CFR 1910.134 (OSHA Respiratory Protection Program).
X.	Additional Information	If material is being used for abrasive air blasting, proper protective clothing, eye protection and respiratory protection should be used in accordance with OSHA regulations. If air blasting is being performed in a confined area, proper ventilation should be used in accordance with OSHA regulations.
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