

COSHH ASSESSMENT RECORD

Product:	Cement						
SDS reference:	OSHA 29CFR 1910.1200		Date completed:	26/09/2024			
SDS date:	September 1997		Date for review:	25/09/2025			
Assessor details:	Henry Monksfield Grad IOSH		Reviewed by:	Henry Monksfield Grad IOSH			
Activity/details of use:	Used in the preparation of sand based construction mortar						
Hazards:	 Explosive	 Oxidising	 Flammable	 Harmful to environment	 Gas under pressure		
Indicate "Yes" or "No":							
Hazards:	 Serious long term health hazard	 Toxic	 Harmful /irritant	 Corrosive	Other		
Indicate "Yes" or "No":			Yes				
Further information:							
Precautions:	 Gloves	 Protective footwear	 Protective overalls	 Face mask	 Respiratory Protection	 Safety glasses	 Hearing protection
Indicate "Yes" or "No":	Yes	Yes	Yes		Yes	Yes	
Further information:	Cement is a light gray powder that poses little immediate hazard. A single short term exposure to the dry powder is not likely to cause serious harm. However, exposure of sufficient duration to wet portland cement can cause serious, potentially irreversible tissue (skin or eye) destruction in the form of chemical (caustic) burns, including third degree burns. The same type of tissue destruction can occur if wet or moist areas of the body are exposed for sufficient duration to dry portland cement.						
Storage and transport:	Keep portland cement dry until used. Normal temperatures and pressures do not affect the material. <ul style="list-style-type: none"> · Promptly remove dusty clothing or clothing which is wet with cement fluids and launder before reuse. · Wash thoroughly after exposure to dust or wet cement mixtures or fluids. 						

	Recycling, disposal:	Dispose of waste material according to local regulations.	
Emergency action		General	Spillage
			<p>Collect dry material using a scoop. Avoid actions that cause dust to become airborne. Avoid inhalation of dust and contact with skin. Wear appropriate personal protective equipment as described in Section 8.</p> <p>· Scrape up wet material and place in an appropriate container. Allow the material to <input type="checkbox"/>dry<input type="checkbox"/> before disposal. Do not attempt to wash portland cement down drains.</p>
	Fire	Steps to be taken by staff:	Emergency services
		<p>Flash point None Lower Explosive Limit None Upper Explosive Limit None Auto ignition temperature Not combustible Extinguishing media Not combustible Special fire fighting procedures None. (Although portland cement possesses no fire-related hazards, a self-contained breathing apparatus is recommended to limit exposure to combustion products when fighting any fire.) Hazardous combustion products None Unusual fire and explosion hazards None</p>	N/A

	First aid	Eyes	Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. · Call physician immediately.
		Skin	Wash skin with cool water and pH-neutral soap or a mild detergent intended for use on skin. Seek medical treatment in all cases of prolonged exposure to wet cement, cement mixtures, liquids from fresh cement products, or prolonged wet skin exposure to dry cement.
		Swallowing	Do not induce vomiting. If conscious, have the person drink plenty of water and call a physician immediately
		Inhalation	Remove to fresh air. Seek medical help if coughing and other symptoms do not subside. (<input type="checkbox"/> Inhalation <input type="checkbox"/> of gross amounts of portland cement requires immediate medical attention.)

Details of substance	
Details of hazardous/dangerous substances which the product contains:	See Below
Workplace exposure limits which apply:	<p>Component Name % CAS No. TWA TWA Tri-Calcium Silicate 20-70 12168-85-3 Portland Cement (CAS 65997-15-1) Di-Calcium Silicate 10-60 10034-77-2 (Respirable Dust) 5 mg/m3 Tetra-Calcium- (Total Dust) 50 million particles/ft3 10 mg/m3 Alumino-Ferrite 5-15 12068-35-8 Calcium Sulfate Calcium Sulfate 2-10 Various (Respirable Dust) 5 mg/m3 Tri-Calcium (Total Dust) 10 mg/m3 10 mg/m3</p>

	Al umi nate 1-15 12042-78-3 Magnesium Oxide 10 mg/m ³ 10 mg/m ³ Magnesium Oxide 0-4 1309-48-4 Calcium Oxide 5 mg/m ³ 2 mg/m ³ Crystalline Silica (Respirable Dust) 0.1 mg/m ³ (10 mg of respirable dust/m ³)/ (%silica+2) Chromates 0.1 mg/ (CrO ₃)/m ³ 0.005 mg (Cr) m ³ Nuisance Dust (Respirable Dust) 5 mg/m ³ 5 mg/m ³ (Total Dust) 15 mg/m ³ 10 mg/m ³					
Level, type and duration of potential exposure:	Daily, frequent use.					
Hazardous properties (include risk phrase (R)):	None hazardous					
Manufacturers' limitations of use:	N/A					
Risk control measures for normal use						
Describe any exposure monitoring and health surveillance:	Respiratory inspection to be conducted annually by a medical professional is recommended.					
Risk control measures already in place:	Employee training.					
New or improved risk control measures required:	Handle in line with manufactures guidance notes.					
Chemical reactions to be avoided:	Incompatibility Wet Portland cement is alkaline. As such it is incompatible with acids, ammonium salts and aluminium metal. Hazardous decomposition Will not spontaneously occur. Adding water results in hydration and produces (caustic) calcium hydroxide. Hazardous polymerization Will not occur.					
Maintenance arrangements, e.g. for extraction systems, PPE etc.:	To be used in a ventilated area, if internal extraction to be used and to be maintained.					
Assessment of risk						
With the above risk controls the risk is:	High		Medium		Low	X
Is the risk adequately controlled?	Yes	X	No			
Can the substance be substituted for one that is less hazardous?	Yes		No	X		

Note. A copy of the safety data sheet must be filed with this assessment.