



CHEMICAL SAFETY CARD

CEM I PORTLAND CEMENT

CAS # 65997-15-1
 EINECS # 266-043-4
 RTECS # VV8770000
 UFI # 2200-UOCW-500E-QU85
 UN # -
 REACH REG. # 01-2119475613-35-0006



TYPES OF HAZARD /EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	<ul style="list-style-type: none"> The product itself does not burn. Non-combustible Solid. 	<ul style="list-style-type: none"> Solid streams of water may be ineffective. 	<ul style="list-style-type: none"> It is compatible with standard firefighting technique (e.g. use of water, carbon dioxide, dry powder, sand and chemical foam extinguishers).
EXPOSURE		STRICT HYGIENE!	
INHALATION	<ul style="list-style-type: none"> Inhalation of dust generated during normal use of the material may cause respiratory irritation, coughing and sore throat. The body's response to such irritation can lead to advanced lung damage. 	<ul style="list-style-type: none"> Avoid actions that cause dust to become airborne. Use local or general exhaust ventilation to control exposures below applicable exposure limits. Use NIOSH/MSHA or NIOSH approved respirators in poorly ventilated areas, if an applicable exposure limit is exceeded, or when dust causes discomfort or irritation. 	<ul style="list-style-type: none"> Take affected persons out into the fresh air. Seek medical help if coughing and other symptoms do not subside.
SKIN CONTACT	<ul style="list-style-type: none"> Causes irritation and allergic skin reactions in contact with skin. It causes the skin to dry. Prolonged or repeated exposure to the material may cause severe skin irritation; In case of contact, it may cause redness, swelling, vesicle formation, exfoliation and thickening of the skin. Skin contact with wet cement should be minimized. 	<ul style="list-style-type: none"> Handle with gloves. Recommended: suitable protective gloves, eg nitrile-butadiene rubber (NBR) gloves. Wear sturdy waterproof boots to avoid foot exposure. Handle in accordance with good industrial hygiene and safety practices. Wash the product thoroughly after using it. Wash your hands before breaks and at the end of the working day. Wash your hands before eating or drinking anything. 	<ul style="list-style-type: none"> Wash skin with cool water and pH-neutral soap or a mild detergent. 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.
EYE CONTACT	<ul style="list-style-type: none"> This material causes serious eye damage in case of eye contact. Chemical burns may occur after direct contact of the material with the eyes. Vapors or fumes can be extremely irritating. Exposure to airborne dust can cause immediate or delayed irritation or corrosive eye inflammation. 	<ul style="list-style-type: none"> Wear safety glasses with side shields or goggles where potentially exposed to cement splashes or dust. In extremely dusty and unpredictable environments, wear vented or indirectly vented goggles to prevent eye irritation or injury. Contact lenses should not be used when working with Portland cement or fresh cement products. 	<ul style="list-style-type: none"> Immediately flush eyes thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.
INGESTION	<ul style="list-style-type: none"> Ingestion into commercial/industrial environments is considered unlikely. The material may cause chemical burns in the oral cavity and gastrointestinal tract following ingestion. Ingestion may result in nausea, abdominal irritation, pain and vomiting. 	<ul style="list-style-type: none"> Do not eat, drink, or smoke during work. 	<ul style="list-style-type: none"> Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. If symptoms persist, call a physician



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ACCIDENTAL RELEASE MEASURES	PACKAGING & LABELING	
<ul style="list-style-type: none">• Ensure adequate ventilation.• Avoid actions that cause dust to become airborne.• Avoid inhalation of dust and contact with skin.• Wear personal protective equipment.• Try to prevent the material from entering drains or water courses. Do not let product enter drains.	UN Classification <ul style="list-style-type: none">• UN Class: -• UN Packaging Group: - GHS Classification <ul style="list-style-type: none">• Hazard Pictogram; GHS05, GHS07• Signal Word; Danger Hazard Statement <ul style="list-style-type: none">• Causes skin irritation.• May cause an allergic skin reaction.• Causes serious eye damage.• May cause respiratory irritation. (Lung, bronchus, trachea)	Precautionary Statement <ul style="list-style-type: none">• Keep out of reach of children.• Avoid breathing dust.• Wash with plenty of water and soap thoroughly after handling.• Use only outdoors or in a well-ventilated area.• Contaminated work clothing should not be allowed out of the workplace.• Wear protective gloves/protective clothing/eye protection/face protection.• IF ON SKIN: Wash with plenty of soap and water.• IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.• Immediately call a POISON CENTER or doctor/physician.• Call a POISON CENTER or doctor/physician if you feel unwell.• Specific treatment (see Section 4).• IF SKIN irritation occurs: Get medical advice/attention.• If SKIN irritation or rash occurs: Get medical advice/attention.• Store in a well-ventilated place. Keep container tightly closed.• Store locked up.• Dispose of contents/container to in accordance with local regulations.
SAFE STORAGE		
<ul style="list-style-type: none">• Keep portland cement dry until used.• Normal temperatures and pressures do not affect the material.• Keep containers tightly closed in a dry, cool and well-ventilated place.• Store in a cool, dry, well-ventilated area.• Keep away from food, drink and animal feeding stuffs.• Store in original containers.• Keep containers securely sealed.		

IMPORTANT DATA

Physical state; Gray, Odorless Solid (Powder), PHYSICAL DANGERS: <ul style="list-style-type: none">• Avoid exposure to dust. CHEMICAL DANGERS: <ul style="list-style-type: none">• No dangerous reaction known under conditions of normal use.• Wet Portland cement is alkaline.• As such it is incompatible with acids, ammonium salts and phosphorous. OCCUPATIONAL EXPOSURE LIMITS: Long Term TWA (8 Hr): 10 mg/m ³ MAK (inhalable fraction): 5 mg/m ³	ROUTES OF EXPOSURE Inhalation, ingestion, skin and/or eye contact. INHALATION RISK: Although small quantities of dust are not known to be harmful, ill effects are possible if larger quantities are consumed. SHORT TERM EXPOSURE EFFECTS: Irritates to skin and respiratory tract. Risk of serious damage to eyes. May cause discomfort if swallowed. EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: May cause sensitization by inhalation and skin contact. Repeated and long term exposure may cause skin dryness or cracking.
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PHYSICAL PROPERTIES	ENVIRONMENTAL DATA
pH (in water): 11-14, Specific Gravity (H ₂ O=1): 3.10-3.15, Bulk density (kg/m ³): 970-1030 Solubility in water; %: 0.1-1.0 Seed size, Micron; 3-100.	<ul style="list-style-type: none">• Biological environment (biota) accumulation potential: Not applicable.• Take the necessary precautions if the spread of the environment and should act in accordance with local regulations.• Cement can harden within 2-3 hours if it is touch with water. So, this product should not be discharged into the water channels.

NOTES

Tricalcium Silicate; CAS#12168-85-3, 3CaOSiO ₂ , % 30-70 ; Dicalcium Silicate; CAS#10034-77-2, 2CaOSiO ₂ , % 10-30 ; Aluminium Dicalcium Iron Pentaoxide; CAS#12068-35-8, 4CaOAl ₂ O ₃ Fe ₂ O ₃ , % 10-20 ; Dialuminium Tricalcium Hexaoxide; CAS# 12042-78-3, 3CaOAl ₂ O ₃ , %3-10 ; Magnesium Oxide; CAS#1309-48-4, MgO, % 0-4; Calcium Oxide; CAS#1305-78-8, CaO,% 0-3; Quartz; CAS#14808-60-7, SiO ₂ % < 1

WARNING

Neither the EC nor the IPCS nor any person acting on behalf of the EC or the IPCS is responsible for the use which might be made of this information.