

SUPER WHITE

1 IDENTIFICATION

GHS product identifier: White Portland Cement

Chemical name: Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product.

Other means of identification: Cement, hydraulic cement, masonry cement, silicate.

Relevant identified uses of the substance or mixture and uses advised against: Building materials, construction, a basic ingredient in concrete.

Supplier/Manufacturer: Çimsa Çimento San.Tic. A.Ş Yenitaşkent/MERSIN
Emergency telephone number: Main Offices: (+90) 324-4540060 - 24 Hours

Website: www.cimsa.com.tr

2 HAZARDS IDENTIFICATION

DANGER! Overexposure to portland cement can cause serious, potentially irreversible skin or eye damage in the form of chemical (caustic) burns, including third degree burns. The same serious injury can occur if wet or moist skin has prolonged contact exposure to dry portland cement.

Portland cement is not classifiable as a human carcinogen.

OSHA/HCS status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Physical Hazards: Not classified

Health Hazards

SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SKIN SENSITIZATION - Category 1
SYECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
(Respiratory tract irritation] - Category 3

GHS label elements

Hazard pictograms:







Signal word: Danger

Hazard statements:

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause cancer

Precautionary statements

Prevention: Wear protective gloves. Wear eye or face protection. Use only outdoors or in a well-ventilated area. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed

out of the workplace. Causes eye and skin burns. See Section 4 for additional details. May present risk of engulfment. See Section 7 for additional details. Overexposure to wet cement can cause severe skin damage in the form of chemical burns, including third degree burns. The same severe injury can occur if wet or moist skin is exposed to dry portland cement. Clothing wet with moisture from cement can transmit the caustic effects to the skin, causing chemical burns. Portland cement causes skin burns with little warning; discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE: Contact with wet cement may aggravate existing skin conditions. Sensitivity to hexavalent chromium can be aggravated by exposure.

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has caused silicosis, fibrosis or scar tissue formations in the lungs. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of pH neutral soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: get medical attention. Portland cement may contain trace amounts of hexavalent chromium. Hexavalent chromium is associated with allergic skin reactions which may appear as contact dermatitis and skin ulcerations. Persons already sensitized may react to their first exposure to cement. Other individuals may develop allergic dermatitis after repeated exposure to cement. The symptoms of allergic reactions may include reddening of the skin, rash, and irritation. Symptoms of chronic exposure to wet cement may include reddening, irritation, and eczematous reshes. Drying, thickening, and cracking of the skin and nails may also occur. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Exposure to dust may cause immediate or delayed irritation or inflammation. Eye contact by larger amount of dry power or splashes of wet portland cement may cause

effects ranging from moderate eye irritation to chemical burns or blindness. Immediately call a POISON CENTER or physician. IF INGESTED: Irritating to mouth, throat and stomach. Ingestion of large quantities may cause severe irritation and chemical burns of the mouth, throat, stomach and digestive tract. Do not ingest portland cement. Get immediate medical attention.

Storage: Keep container tightly closed in a dry and well-ventilated area.

Disposal: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified: Not applicable.

3 COMPOSITION/INFORMATION

Substance/mixture: Mixture

Product code: Not available.

Chemical name: Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product.

Other means of identification: Cement, hydraulic cement, portland cement, silicate CAS number/other identifiers CAS number: 65997-15-1

Ingredient name	0/0	CAS number
Cement, porland, chemicals	100%	65997-15-1
The structure of Porland cement may contain the following in some concentration ranges:		
Calcium oxide	0-4%	1305-78-8
Quartz	05%	14808-60-7
Hexavalent chromium*	0-26 PPM	18450-29-9
Porland cement also contains gypsum, limestone and magnesium oxside in various concentrations. However, because these components are not classifiable as a hazard under Title 29 Code of Federal Regulations 1910. 1200, they are not required to be listed in this section.		
Gypsum	2-6%	13397-24-5
Limestone	0-5%	1317-65-3
Magnesium oxide	.5-2%	1309-48-4

Any concentration shown as a range is to protect confidentiality or is due to process variation.

*Hexavalent chromium is included due to dermal sensitivity associated with the component.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8

4 FIRST AID MEASURES

Description of necessary first aid measures

Eye contact: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

Inhalation: Seek medical help if coughing or other symptoms persist. Inhalation of large amounts of portland cement requires immediate medical attention. Call a poison center or physician. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin contact: Get medical attention immediately. Heavy exposure to portland cement dust, wet concrete or associated water requires prompt attention. Quickly remove contaminated clothing, shoes, and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess portland cement. Immediately wash

thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be treated as caustic burns. Portland cement causes skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person to a serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure.

Ingestion: Get medical attention immediately. Call a poison center or physician. Have





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victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the

exposed person is conscious, give small quantities of water to drink. Have victim drink 60 to 240 mL (2 to 8 oz.) of water. Stop giving water if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway

Most important symptoms/effects, acute and delayed potential acute health effects

Eye contact: Causes serious eye damage. Inhalation: May cause respiratory irritation.

Skin contact: Causes severe burns. May cause an allergic skin reaction.

Ingestion: May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain, watering and redness Inhalation: Adverse symptoms may include the following: respiratory tract irritation and coughing

Skin contact: Adverse symptoms may include the following: pain or irritation, redness and blistering may occur, skin burns, ulceration and necrosis may occur

Ingestion: Adverse symptoms may include the following: stomach pains

Indication of immediate medical attention and special treatment needed.

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: Not applicable

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves

See toxicological information (Section 11)

5 FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding

Unsuitable extinguishing media: Do not use water jet or water-based fire extinguish-

Specific hazards arising from the chemical: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon dioxide, carbon monoxide, sulfur oxides and metal oxide/oxides

Special protective actions for fire-fighters: Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode

6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedu

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment

For emergency responders: For personal protective clothing requirements, please see

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has entered the environment, including waterways, soil or air. Materials can enter waterways through drainage systems

Methods and materials for containment and cleaning up

Small spill: Move containers from spill area. Avoid dust generation. Do not dry sweep Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of waste material by using a licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place dust in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Large spills to waterways may be hazardous due to alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor

Note: see Section 1 for emergency contact information and Section 13 for waste

7 HANDLING AND STORAGE

ecautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure by obtaining and following speci instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Use only

with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material and keep the container tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse containe

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities: A key to using the product safely requires the user to recognize that portland cement reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with cement. Do not get portland cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain against the skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Launder/clean clothing and shoes before reuse. Do not enter a confined space that stores or contains portland cement unless appropriate procedures and protection are available. Portland cement can build up or adhere to the walls of a confined space and then release or fall suddenly (engulfment).

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Cement, portland, chemicals

Calcium oxide

Limestone

Quartz

Magnesium oxide

Calcium sulfate (gypsum)

Ingredient name

ACGIH TLV (United States, 3/2012). TWA: 1 mg/m3 8 hours. Form: Respirable fraction

NIOSH REL (United States, 6/2009). TWA: 5 mg/m3 10 hours. Form: Respira TWA: 10 mg/m3 10 hours. Form: Total

OSHA PEL (United States, 6/2010).

TWA: 5 mg/m3 8 hours. Form: Respirable fraction TWA: 15 mg/m3 8 hours. Form: Total dust

ACGIH TLV (United States, 3/2012).

NIOSH REL (United States, 6/2009).

OSHA PEL (United States, 6/2010).

NIOSH REL (United States, 6/2009). TWA: 5 mg/m3 10 hours. Form: Respirative: 10 mg/m3 10 hours. Form: Total

OSHA PEL (United States, 6/2010). TWA: 5 mg/m3 8 hours. Form: Respirable fra TWA: 15 mg/m3 8 hours. Form: Total dust

ACGIH TLV (United States, 3/2012). TWA: 10 mg/m3 8 hours. Form: Inhalable fraction

OSHA PEL (United States, 6/2010). TWA: 15 mg/m3 8 hours. Form: Total particulates

ACGIH TLV (United States, 3/2012). TWA: 0.025 mg/m3 8 hours. Form: Respirable fraction

NIOSH REL (United States, 6/2009). TWA: 0.05 mg/m3 10 hours. Form: respirable dust OSHA PEL Z-3 (United States, 9/2005).

TWA: 10mg/m3 divided by %SiO2 + 2: Respirabl TWA: 30mg/m3 divided by %SiO2 + 2: Total ACGIH TLV (United States, 3/2012) TWA: 10 mg/m3 8 hours. Form: Respirable fraction

NIOSH REL (United States, 6/2009) TWA 5 mg/m3 8 hours. Form: Respirable fraction TWA 10 mg/m3 8 hours. Form: Total dust

OSHA PEL Z-1 (United States, 2/2006) TWA 5 mg/m3 8 hours. Form: Respirable f TWA 15 mg/m3 8 hours. Form: Total dust





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Appropriate engineering controls: Use only with adequate ventilation. If user operations generate dust, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures: Clean water should always be readily available for skin and (emergency) eye washing. Periodically wash areas contacted by portland cement with a pH neutral soap and clean, uncontaminated water. If clothing becomes saturated with portland cement, garments should be removed and replaced with clean, dry clothing.

Eye/face protection: To prevent eye contact, wear safety glasses with side shields, safety goggles or face shields when handling dust or wet cement. Wearing contact lenses when working with cement is not recommended.

Skin protection

Hand protection: Use impervious, waterproof, abrasion and alkali-resistant gloves. Do not rely on barrier creams in place of impervious gloves. Do not get portland cement inside gloves.

Body protection: Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and longlegged clothing to protect the skin from contact with wet portland cement. To reduce foot and ankle exposure, wear impervious boots that are high enough to prevent portland cement from getting inside them. Do not get portland cement inside boots, shoes, or gloves. Remove clothing and protective equipment that becomes saturated with cement and immediately wash exposed areas of

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved. Footwear and other gear to protect the skin should be approved by a specialist before handling this product

Respiratory protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product, and assigned protection factor of the selected respirator

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State: Solid. [Powder.] Lower and upper explosive (flammable) limits: Not applicable

Color: White. Vapor pressure: Not applicable. Odor: Odorless. Vapor density: Not applicable.

Odor threshold: Not available. Relative density: 3.0 to 3.2

pH: >11.5 [Conc. (% w/w): 1%] Solubility: Slightly soluble in water.

Melting point: Not available. Solubility in water: 0.1 to 1%

Boiling point: >1000°C (>1832°F) Partition coefficient: n-octanol/water: Not applicable. Flash point: Not flammable. Not combustible. Auto-ignition temperature: Not applicable.

Burning time: Not available. Decomposition temperature: Not available

Burning rate: Not available. SADT: Not available.

Evaporation rate: Not applicable. Viscosity: Not applicable.

Flammability (solid, gas): Not applicable.

10 STABILITY AND REACTIVITY

Reactivity: Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur

Conditions to avoid: No specific data.

Incompatible materials: Reactive or incompatible with the following materials: oxidizing materials, acids, aluminum and ammonium salt. Portland cement is highly alkaline and will react with acids to produce a violent, heat-generating reaction. Toxic gases or vapors may be given off depending on the acid involved. Reacts with acids, aluminum metals and ammonium salts . Aluminum powder and other alkali and alkaline earth elements will react in wet mortar or concrete, liberating hydrogen gas. Limestone ignites on contact $% \left(1\right) =\left(1\right) \left(1\right) \left$ with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding

possible fire and/or explosions. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride

Hazardous decomposition products: Under normal conditions of storage and use. hazardous decomposition products should not be produced.

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity: Portland Cement LD50/LC50 = Not available

Skin: May cause skin irritation. May cause serious burns in the presence of moisture. Eyes: Causes serious eye damage. May cause burns in the presence of moisture Respiratory: May cause respiratory tract irritation.

Sensitization: May cause sensitization due to the potential presence of trace amounts of hexavalent chromium.

Mutagenicity: There are no data available

Carcinogenicity:

Classification

Product/ingredient name OSHA	IARC	ACGIH	NTP	
Cement, portland, chemicals	_	_	A4	_
Quartz –	1	A2	Known to	be a human

Reproductive toxicity: There are no data available. Teratogenicity: There are no data available

Specific target organ toxicity (single exposure)

Name

 Category 3
 Route of Exposure
 Target Organs

 Category 3
 Inhalation and skin contact
 Respiratory tract irritation, skin irritation

 Category 3
 Inhalation and skin contact
 Respiratory tract irritation, skin irritation
 Calcium oxide Category 3 Cement, portland, Category 3

Specific target organ toxicity (repeated exposure)

Category Route of Exposure Target Organs Name ct and kidnevs

Aspiration hazard: There are no data available.

Information on the likely routes of exposure

Dermal contact. Eye contact. Inhalation. Ingestion. Potential **Eye contact:** Causes serious eye damage. **Inhalation:** May cause respiratory irritation. acute health

Skin contact: Causes severe burns. May cause an allergic skin reaction.

Ingestion: May cause burns to mouth, throat and stomach

Symptoms Eye contact: Adverse symptoms may include the following: pain, watering
Inhalation: Adverse symptoms may include the following: respiratory related to the physical,

tractirritation, coughin chemical and Skin contact: Adverse symptoms may include the following: pain or toxicological

irritation, redness, blistering may occur, skin burns, ulcerations and characteristics necrosis may occur

Ingestion: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects from short and long effects and also chronic term exposure: Potential chronic health

effects:

effects:

Short term exposure

Potential immediate effects: No known significant effects or critical hazards. Potential delayed effects: No known significant effects or critical hazards. Long term exposure nediate effects: No known significant effects or critical hazards.

Potential delayed effects: No known significant effects or critical hazards. General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. If sensitized to hexavalent chromium, a severe allergic dermal reaction may occur when subsequently exposed to very low levels

Carcinogenicity: Portland cement is not classifiable as a human carcinogen. Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

pmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

Numerical measures of toxicity:

Acute toxicity estimates: There are no data available





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12 ECOLOGICAL INFORMATION

Product/ingredient name	Result	Species	
Calcium oxide	Chronic NOEC 100mg/L Fresh water	Fish-Oreochromis niloticus-Juvenile (Fledgling, Hatchling, Weanling)	Exposure 46 days

Persistence and degradability: There are no data available.

accumulative potential: There are no data available.

Mobility in soil: Soil/water partition coefficient (Koc): Not available

Other adverse effects: No known significant effects or critical hazards.

13 DISPOSAL CONSIDERATIONS

Disposal methods: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Untreated waste should not be released to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe manner. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues

Avoid dispersal of spilled material and runoff, and contact with soil, waterways, drains and sewers.

14 TRANSPORT INFORMATION

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	_		
Transport hazard class(es)	_	_	_
Packing group	_	_	_
Environmental hazards	None.	None.	None.
Additional information	_	_	_

Special precautions for user: Transport within user's premises; always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

15 REGULATORY INFORMATION

U.S. Federal regulations:

TSCA 6 final risk management: Chromium, ion (Cr6+) United States inventory (TSCA 8b): Portland cements are considered to be statutory mixtures under TSCA. CAS 65997-15-1 is included on the TSCA inventory Clean Water Act (CWA) 307: Chromium, ion (Cr6+) CERCLA: This product is not listed as a CERCLA

Clean Air Act Section 112 (b): Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602: Class I Substances - Not listed

DEA List I Chemicals: (Precursor Chemicals) Not listed

DEA List II Chemicals: (Essential Chemicals) - Not listed

SARA 311/312

Classification Immediate (acute) health hazard

Clean Air Act Section 602: Class II Substances

Delayed (chronic) health hazard

Composition/information on ingredients

Name	0/0	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (choronic) health hazard
Calcium oxide	A-B	No	No	Yes	No
Quartz	<0.2	No	No	No	Yes
Chromium, ion (Cr6+)	<0.1	No	No	Yes	Yes
Nickel Compounds	<0.1	No	No	Yes	Yes
Lead (Organic&Inorganic)	<0.1	No	No	No	Yes

SARA 313 Product name

CAS number 0/0 Form R—Reporting Chromium, ion (Cr6+) 8540-29-9 < 0.1 requirements Lead (Organic or Inorganic) < 0.1Nickel Compounds

Alternatively, if any of the compounds are not present, state Supplier notification

This product does not contain any constituents listed under SARA Title III Section 313.

Revision Date : 01.08.2018 Revision Number: 001

State regulations

Massachusetts: The following components are listed: cement, portland, chemicals,

New York: None of the components are listed.

New Jersey: The following components are listed: cement, portland, chemicals, gypsum,

Pennsylvania: The following components are listed: cement, portland, chemicals, gypsum,

California Prop. 65

WARNING: This product contains crystalline silica and chemicals (trace metals) known to the State of California to cause cancer, birth defects or other reproductive harm. California law requires the above warning in the absence of definitive testing to prove

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Quartz	Yes.	No	No	No
Chromium, ion (Cr6+)	Yes.	Yes	0.001 µg/day (inhalation)	8.2 micrograms/day (ingestion)
Nickel Compounds	No.	No	No	No
Lead	Yes.	Yes	15 μg/day (ingestion)	0.5 micrograms/day (inhalation)

International regulations

International lists:

Canadian Domestic Su bstances List (DSL): Portland cement is included on the DSL. Mexico Inventory (INSQ): All components are listed or exempted.

15 OTHER INFORMATION

History

Date of issue: 15/12/2015

Version: 1

Revised Section(s): Not applicable

Notice to reader

While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of portland cement as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with portland cement to produce portland cement products. Users should review other relevant material safety data sheets before working with this portland cement or working on portland cement products, for example, portland cement concrete.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY \vec{c} **IMSA Cement**, except that the product shall conform to contracted specifications. The information provided herein was believed by the **CIMSA Cement** to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for non-delivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

Abbreviations

- Not listed

ACGIH — American Conference of Governmental Industrial Hygienists

CAS — Chemical Abstract Service

CERCLA — Comprehensive Emergency Response and Comprehensive Liability Act

CFR — Code of Federal Regulations DOT — Department of Transportation

GHS — Globally Harmonized System

HEPA — High Efficiency Particulate Air

IATA — International Air Transport Association IARC — International Agency for Research on Cancer

IMDG — International Maritime Dangerous Goods

NIOSH — National Institute of Occupational Safety and Health NOEC — No Observed Effect Concentration

NTP — National Toxicology Program

OSHA — Occupational Safety and Health Administration

PEL — Permissible Exposure Limit
REL — Recommended Exposure Limit

RQ — Reportable Quantity SARA — Superfund Amendments and Reauthorization Act

SDS — Safety Data Sheet

TLV — Threshold Limit Value

TPQ — Threshold Planning Quantity

TSCA - Toxic Substances Control Act

TWA — Time-Weighted Average UN — United Nations

