



Portland Cement – Type 3

Safety Data Sheet

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Date of issue: 08/10/2021 Revision date: n/a Printed: 08/10/2021

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Portland Cement
Product type	Type 3
Synonyms	Cement, Portland cement, Portland Cement- Type III

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Building materials. Construction material
Uses Advised Against	Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer	Sesco cement Corp 7300 Wingate St. Houston, TX 77011
Telephone:	832-920-9371

1.4 Emergency telephone number

Emergency Phone No.	832-920-9371
Contact	M-F 8 am – 5 pm (CT)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US CFR 1910.1200	Skin Irrit. 2 :Causes skin irritation. Skin Sens. 1B :May cause an allergic skin reaction. Eye Dam. 1 :Causes serious eye damage. STOT SE 3 :May cause respiratory irritation. Carc. 2 :Suspected of causing cancer.
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2.2 Label elements

According to US CFR 1910.1200

Hazard Pictogram(s)



Signal Word(s)

Danger

Hazard Statement(s)

Causes skin irritation.
May cause an allergic skin reaction.



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Causes serious eye damage.

May cause respiratory irritation.

Suspected of causing cancer.

Precautionary Statement(s)

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER/doctor if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W
Cement, portland, chemicals	65997-15-1	100
calcium oxide (Containment)	1305-78-8	60 - 70
silicon dioxide (Containment)	7631-86-9	16 - 22
aluminium oxide (Containment)	1344-28-1	5 - 8
diiron trioxide	1309-37-1	< 2



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(Containment)		
magnesium oxide (Containment)	1309-48-4	< 1
titanium dioxide (Containment)	13463-67-7	< 0.5
disodium oxide (Containment)	1313-59-3	< 0.5
dipotassium oxide (Containment)	12136-45-7	< 0.5
phosphorus pentoxide (Containment)	1314-56-3	< 0.2

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.

This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (l)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Inhalation of large amounts of cement requires immediate medical attention. If the individual is not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Call a poison center or physician.
Skin Contact	Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH natural soap. Take off immediately all contaminated clothing and wash it before reuse. Exposure to dust, wet concrete or associated water requires prompt attention. If skin irritation occurs: Get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	Get medical attention immediately. Rinse mouth thoroughly. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Have victim drink a cup of water.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns to eyes, symptoms include pain, watering and redness of eyes.
Respiratory tract irritation and coughing.
Allergic contact dermatitis. May cause burns to mouth, throat and stomach, stomach pains.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER/doctor. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media



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Suitable Extinguishing Media As appropriate for surrounding fire.

Unsuitable Extinguishing Media Water-jet.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant gases: Carbon dioxide, carbon monoxide, sulfur oxides and metal oxide/oxides.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust generation. Do not breathe dust. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Small spill: Use vacuum equipment for collecting spill materials, where practicable. Place spilled material in a labeled waste container. Dispose of waste material by using a licensed waste disposal facility.

Large spill: Approach release from upwind. Prevent entry into sewers, watercourses. Avoid dust generation. Shovel or vacuum dust with equipment fitted with a HEPA filter. Collect and place in a closed, labeled waste container. Large spills to waterways may be hazardous due to the alkalinity of the product. Dispose of waste material using a licensed waste disposal contractor. Refer to Section 13 for waste disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. Avoid breathing dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

Not known.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note:
Portland cement	65997-15-1		1			ACGIH TLV, R, E, A4
Portland cement (Total dust)	65997-15-1		10			OSHA PEL
Portland cement (Respirable fraction)	65997-15-1		5			OSHA PEL
Silicates (less than 1% crystalline silica): Portland cement (Total dust)	65997-15-1		10			CAL-OSHA PEL_Table Z-3
Silicates (less than 1% crystalline silica): Portland cement (Respirable)	65997-15-1		5			CAL-OSHA PEL_Table Z-3
Portland cement (total dust)	65997-15-1		10			NIOSH REL Z-1
Portland cement (Respirable fraction)	65997-15-1		5			NIOSH REL Z-1
Silicates (less than 1% crystalline silica): Portland cement (Total dust)	65997-15-1		10			NIOSH REL Z-3
Silicates (less than 1% crystalline silica): Portland cement (Respirable)	65997-15-1		5			NIOSH REL Z-3
Portland cement (Total dust)	65997-15-1		15			OSHA PEL Z-1
Amorphous, including natural diatomaceous earth (Total dust)	7631-86-9		6			CAL-OSHA PEL_Table Z-3
Amorphous, including natural diatomaceous earth (Respirable)	7631-86-9		3			CAL-OSHA PEL_Table Z-3
Amorphous, including natural diatomaceous earth	7631-86-9		6			NIOSH REL Z-3
Amorphous, including natural diatomaceous earth	7631-86-9		80			OSHA PEL_Table Z-3, (3a), (3e)
Aluminium, metal and insoluble compounds	1344-28-1		1			ACGIH TLV, R, A4
alpha-Aluminum (Total dust)	1344-28-1		10			OSHA PEL
alpha-Aluminum (Respirable fraction)	1344-28-1		5			OSHA PEL
Aluminum, metal and insoluble compounds (as Al) (Total dust)	1344-28-1		10			NIOSH REL Z-1
Aluminum, metal and insoluble compounds (as Al) (Respirable fraction)	1344-28-1		5			NIOSH REL Z-1
Aluminum oxide (Total dust)	1344-28-1		15			OSHA PEL Z-1
Aluminum oxide (Respirable fraction)	1344-28-1		5			OSHA PEL Z-1



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Aluminum, metal and insoluble compounds (as Al) (Total dust)	1344-28-1		15			OSHA PEL Z-1
Aluminum, metal and insoluble compounds (as Al) (Respirable fraction)	1344-28-1		5			OSHA PEL Z-1
Iron oxide (Fe ₂ O ₃)	1309-37-1		5			ACGIH TLV, R, A4
Iron oxide fume	1309-37-1		5			OSHA PEL
Rouge (Total dust)	1309-37-1		10			OSHA PEL
Rouge (Respirable fraction)	1309-37-1		5			OSHA PEL
Iron oxide (Fe ₂ O ₃), dust and fume, as Fe	1309-37-1		5			NIOSH REL Z-1
Iron oxide (Fe ₂ O ₃), fume	1309-37-1		10			OSHA PEL Z-1
Rouge (Total dust)	1309-37-1		15			OSHA PEL Z-1
Rouge (Respirable fraction)	1309-37-1		5			OSHA PEL Z-1
Calcium oxide	1305-78-8		2			ACGIH TLV
Calcium oxide	1305-78-8		2			OSHA PEL
Calcium oxide	1305-78-8		2			NIOSH REL Z-1
Calcium oxide	1305-78-8		5			OSHA PEL Z-1
Magnesium oxide	1309-48-4		10			ACGIH TLV, I, A4
Magnesium oxide fume, as Mg (Total particulate)	1309-48-4		10			OSHA PEL
Magnesium oxide fume (Total particulate)	1309-48-4		15			OSHA PEL Z-1
Titanium dioxide	13463-67-7		10			ACGIH TLV, A4
Titanium dioxide, nanocat particles	13463-67-7		0.2			ACGIH TLV, NIC, R, A3
Titanium dioxide, finescale particles	13463-67-7		2.5			ACGIH TLV, NIC, R, A3
Titanium dioxide - Total dust	13463-67-7		10			OSHA PEL
Titanium dioxide	13463-67-7					NIOSH REL Z-1, Ca
Titanium dioxide (Total dust)	13463-67-7		15			OSHA PEL Z-1

Remark	Notes
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®), 2021
R	Measured as respirable fraction of the aerosol.
E	The value is for particulate matter containing no asbestos and <1% crystalline silica
A4	Not Classifiable as a Human Carcinogen
OSHA PEL	Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs), 2019
CAL-OSHA PEL_Table Z-3	California Division of Occupational Safety and Health (CAL-OSHA) Permissible Exposure Limits (PELs) Table Z-3 Mineral Dusts, 2019
NIOSH REL Z-1	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week, 2021
NIOSH REL Z-3	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-3: Up to 10-hour time weighted average (TWA) during a 40-hour work week, 2019

OSHA PEL Z-1	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table, 2021
OSHA PEL_Table Z-3	Occupational Safety and Health (OSHA) Permissible Exposure Limits (PELs) Table Z-3 Mineral Dusts, 2019
(3a)	20 mppcf (Millions of particles per cubic foot of air, based on impinger samples counted by light-field techniques. Conversion factors - mppcf × 35.3 = million particles per cubic meter = particles per c.c.
(3e)	The PEL in mg/m3 is calculated by dividing by the percentage SiO ₂ +2.
I	Measured as Inhalable fraction of the aerosol
NIC	Notice of intended changes
A3	Confirmed Animal Carcinogen with Unknown Relevance to Humans
Ca	Potential occupational carcinogens

8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye 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

Use impervious, waterproof, abrasion and alkali-resistant gloves. Use impervious, waterproof, abrasion and alkali-resistant boots and protective long-sleeved and long- legged 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. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.



Respiratory protection

Use 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.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Solid. (Powder Color : Gray or white
Odor	Odorless.
Odor Threshold	Not known.
pH	Not applicable. (1% in water: > 11)
Melting Point/Freezing Point	Not known.
Initial boiling point and boiling range	Not applicable.
Flash Point	Not applicable.
Evaporation Rate	Not known.



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Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapor pressure	Not known.
Vapor density	Not known.
Density (g/ml)	Not known.
Relative density	2.3 - 3.1 Density (water=1)
Solubility(ies)	Solubility (Water) : 0.1 - 1% Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidizing properties	Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

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

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Acids, aluminum metals and ammonium salts. Oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified.
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.



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Skin sensitization data	May cause an allergic skin reaction.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Suspected of causing cancer.
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	May cause respiratory irritation.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.
11.2 Other information	Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

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.

13.2 Additional Information

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be



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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.

SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z) Listed : 65997-15-1, 1344-28-1, 1309-37-1, 1305-78-8, 1309-48-4, 13463-67-7

National emission standards for hazardous air pollutants (40 CFR 61.01) Not listed

SARA Title III Section 313 Not listed

TSCA (Toxic Substance Control Act) Listed : 65997-15-1 (Active), 7631-86-9 (Active), 1344-28-1 (Active), 1309-37-1 (Active), 1305-78-8 (Active), 1309-48-4 (Active), 1313-59-3 (Active), 12136-45-7 (Active), 13463-67-7 (Active), 1314-56-3 (Active)

CAA 602 - Ozone Depleting Substances (ODS) Not listed

15.2 US State Regulations

State Right to Know Lists

Proposition 65 (California)

Listed : 13463-67-7

Minnesota

Listed : 65997-15-1, 7631-86-9, 1344-28-1, 1309-37-1, 1305-78-8, 1309-48-4, 13463-67-7

New Jersey

Listed : 65997-15-1, 1344-28-1, 1309-37-1, 1305-78-8, 1309-48-4, 12136-45-7, 13463-67-7, 1314-56-3



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Pennsylvania	Listed : 65997-15-1, 7631-86-9, 1344-28-1, 1309-37-1, 1305-78-8, 1309-48-4, 13463-67-7, 1314-56-3
Rhode Island	Listed : 65997-15-1, 1344-28-1, 1309-37-1, 1305-78-8, 1309-48-4, 13463-67-7

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed
NTP (National Toxicology Program)	Listed : 7631-86-9
IARC (International Agency for Research on Cancer)	Listed : 7631-86-9, 1309-37-1, 13463-67-7

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Skin Irrit. 2 : Skin corrosion/irritation, Category 2
Skin Sens. 1B : Skin sensitization, Category 1B
Eye Dam. 1 : Serious eye damage/irritation, Category 1
STOT SE 3 : Specific target organ toxicity — single exposure, Category 3
Carc. 2 : Carcinogenicity, Category 2

Key literature references and sources for US CFR 1910.1200 data used to compile the SDS

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.