

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012. Date of issue: 12/27/2013

Revision date: 04/13/2014

Version: 1 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product name(s)

: Portland Cement, Hydraulic Cement, Class A Oil Well Cement, White Cement, Type I, IA, II, I/II,

III, V

Product code

: Not available

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

Use of the substance/mixture

: Concrete mixes for construction use.

Details of the supplier of the safety data sheet

Ash Grove Cement Company 11011 Cody Overland Park, KS 66210 T 913-451-8900

Emergency telephone number

Emergency number

: CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

Classification of the substance or mixture

GHS-US classification

Skin corrosion 1A Serious Eye Damage 1 Skin Sensitization 1 Carcinogenicity 1A

Specific Target Organ Toxicity After Single Exposure 3

Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07



Signal word (GHS-US)

Hazard statements (GHS-US)

Prevention statements (GHS-US)

Response statements (GHS-US)

Storage statements (GHS-US) Disposal statements (GHS-US) Supplemental Information

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

: Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not breathe dusts. Wash hands thoroughly after handling. Wear protective gloves and clothing as well as eye and face protection. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product.

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a doctor if ingested or skin / eye irritation persists or worsens. 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 attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

Store to keep product dry until use.

: Dispose of contents and container in accordance with all local, state, and federal regulations.

Read and Follow all precautions listed in the Safety Data Sheet available on request or at Ashgrove.com. Additional information on the selection and use of respirators can be found in the NIOSH Respirator Selection Logic (DHHS [NIOSH] Publication No. 2005-100) and the NIOSH Guide to Industrial Respiratory Protection (DHHS [NIOSH] Publication No. 87-116) available at http://www.cdc.gov/niosh/docs/87-116/.

This product contains greater than 0.1% crystalline silica. Crystalline silica has been linked to cancer, silicosis, and other lung problems in conditions of prolonged airborne over-exposure.

Keep product dry until use. Avoid contact with bleed water from wet product. Clothing saturated with wet product can result in delayed, serious alkali skin burns.

2.3. Other hazards

Other hazards not contributing to the classification

: Not applicable.

EN (English)

27/12/2013

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Unknown acute toxicity (GHS-US)

82 % of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Cement, portland, chemicals	(CAS No) 65997-15-1	90 - 95	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Gypsum (Ca(SO4).2H2O)	(CAS No) 13397-24-5	4 - 8	Not classified
Magnesium oxide	(CAS No) 1309-48-4	0.5 - 7	Not classified
Limestone	(CAS No) 1317-65-3	≤ 5	Not classified
Calcium oxide	(CAS No) 1305-78-8	≤5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335
Flue dust, portland cement	(CAS No) 68475-76-3	≤3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Quartz	(CAS No) 14808-60-7	≤ 0.3	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 STOT RE 1, H372

SECTION 4: First aid measures

First-aid measures after eye contact

Description of first aid measures

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for First-aid measures after inhalation breathing. Get immediate medical advice/attention.

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing. First-aid measures after skin contact

Wash contaminated clothing before reuse. Get immediate medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a doctor.

If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never First-aid measures after ingestion give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation May cause respiratory tract irritation.

Causes severe skin burns. Symptoms may include redness, pain, blisters. Do not allow Symptoms/injuries after skin contact

product to harden around any body part or allow continuous, prolonged contact with skin. May cause sensitisation by skin contact, due to trace amounts of hexavalent chromium that may

be present.

Causes serious eye damage. May cause burns. Symptoms may include discomfort or pain, Symptoms/injuries after eye contact excess blinking and tear production, with marked redness and swelling of the conjunctiva.

May be harmful if swallowed. May cause stomach distress, nausea or vomiting. Symptoms/injuries after ingestion

Indication of any immediate medical attention and special treatment needed

Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

: Treat for surrounding material. Suitable extinguishing media

Special hazards arising from the substance or mixture 5.2.

: Product does not burn; however its packaging may. Products of combustion may include, and Fire hazard

are not limited to: oxides of carbon.

Advice for firefighters

: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory Firefighting instructions protection (SCBA).

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to General measures unnecessary and unprotected personnel. Avoid contact with skin and eyes.

2/7 27/12/2013 EN (English)

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

6.2. Methods and material for containment and cleaning up

For containment

: Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Vacuum or sweep material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Avoid contact with skin and eyes. Avoid generating and breathing dust. Do not swallow. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. Handle and open container with care. When using do not eat, drink or smoke.

Engulfment hazard. To prevent burial or suffocation, do not enter a confined space, such as a silo, dome, bin, bulk truck or other storage container or vessel that stores or contains cement. Cement can buildup or adhere to the walls of a confined space. The cement can release, collapse or fall unexpectedly.

Hygiene measures

Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Keep out of the reach of children. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. Clean up spilled material promptly.

10 mg/m³

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

ACGIH TWA (mg/m³)

8.1. Control parameters

Limestone (1317-65-3)

USA ACGIH

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m3)	(30)/(%SiO2 + 2) mg/m3 TWA, total dust (250)/(%SiO2 + 5) mppcf TWA, respirable fraction (10)/(%SiO2 + 2) mg/m3 TWA, respirable fraction

Calcium oxide (1305	-78-8)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³	

USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ TWA (total dust) 5 mg/m³ TWA (respirable fraction)	
Cement, portland, cl	nemicals (65997-15-1)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (respirable fraction)	
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ (respirable fraction)	

Gypsum (Ca(SO4).2I	120) (13397-24-5)	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m3 TWA (total dust)
		5 mg/m3 TWA (respirable fraction)

Magnesium oxide (1	309-48-4)	
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ TWA

8.2. Exposure controls

Appropriate engineering controls : U

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Hand protection : Wear suitable gloves.

Eye protection : Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) and face protection (face shield).

27/12/2013 EN (English) 3/7

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or

when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection

(Z88.2).

Environmental exposure controls : Maintain levels below Community environmental protection thresholds.

Other information : Handle according to established industrial hygiene and safety practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: SolidAppearance: Powder.Colour: Grey.Odour: Odourless.

Odour threshold : No data available.

pH : 12 - 13 (Highly alkaline when wet.)

Relative evaporation rate (butylacetate=1) : No data available. : No data available. Melting point Freezing point : No data available. Boiling point : No data available. Flash point : No data available. Self ignition temperature : No data available. Decomposition temperature : No data available. Flammability (solid, gas) : Not flammable Vapour pressure : No data available Relative vapour density at 20 °C : No data available. Relative density : 2.9 - 3.1 (Water = 1) Solubility : Slight. (Water: 0.1 - 1 %) : No data available. Log Pow

Solubility : Slight. (Water: 0.1 - 1)

Log Pow : No data available.

Log Kow : No data available.

Viscosity, kinematic : No data available.

Viscosity, dynamic : No data available.

Explosive properties : No data available.

Oxidising properties : No data available.

Explosive limits : No data available.

9.2. Other information

VOC content : No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use. An alkali reaction from components of portland cement will corrode aluminum.

10.2. Chemical stability

Stable under normal storage conditions. Keep dry in storage.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use. Do not mix with other chemcals.

10.4. Conditions to avoid

Moisture - product must be kept dry until ready to use.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1, Information on toxicological effects

Acute toxicity : Not classified.

27/12/2013 EN (English) 4/7

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

500 mg/kg >5000 mg/kg
>5000 mg/kg
>5000 mg/kg
6450 mg/kg
> 2000 mg/kg
- 2000 mg/ng
1,000
>1848 mg/kg
≥ 2000 mg/kg >6.04 mg/l/4h
20.04 mg//4m
> 2000 mg/kg, rat
> 2000 mg/kg, rabbit
> 5 mg/l/4h, rat
: Causes severe skin burns.
: Causes serious eye damage.
: May cause an allergic skin reaction.
: Based on available data, the classification criteria are not met.
: May cause cancer.
1
2
: Based on available data, the classification criteria are not met.
: May cause respiratory irritation.
: Based on available data, the classification criteria are not met.
: Based on available data, the classification criteria are not met.
: May cause respiratory tract imitation.
 Causes severe skin burns. Symptoms may include redness, pain, blisters. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. May cause sensitisation by skin contact.
: Causes serious eye damage. May cause burns. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
: Likely routes of exposure: ingestion, inhalation, skin and eye.
1
: No ecological consideration when used according to directions. Do not flush to sewer or allow enter waterways.
No data available.
No data available.
140 udia avallable.
No data available.
וייט עמנמ מימוומטוכ.

27/12/2013 EN (English) 5/7

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations

: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

SECTION 14: Transport information

In accordance with DOT

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Additional information

Other information

: No supplementary information available.

SECTION 15: Regulatory information

15.1. US Federal regulations

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium oxide (1305-78-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, portland, chemicals (65997-15-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium oxide (1309-48-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Flue dust, portland cement (68475-76-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Portland Cement()	
State or local regulations	This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Quartz (14808-60-7)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes	No	No	No	No

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

IARC (I)	International Agency for Research on Cancer.
	Carcinogenic to humans; A - Probably carcinogenic to humans; B - Possibly carcinogenic to humans; - Not classifiable; 4 - Probably not carcinogenic to humans.
NTP (N)	National Toxicology Program.
	Evidence of Carcinogenicity; - Known Human Carcinogens; - Reasonably anticipated to be Human Carcinogen; - Substances delisted from report on Carcinogens; - Twelfth Report - Items under consideration.

SECTION 16: Other information

Data sources

 SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

27/12/2013 EN (English) 6/7

Safety Data Sheet according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

NFPA health hazard

3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention

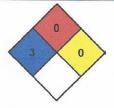
was given.

NFPA fire hazard

0 - Materials that will not burn.

NFPA reactivity

0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product