



**AGGREGATE**

**SECTION 1: Identification**

**Material Name:** Aggregate

**Applicable to all types /colors of Preferred Deck Aggregates:** (White, Cream, Gray, Sand, Stamped Overlay White, Deck Patch.)

**Recommended Use and Restriction on Use**

**Recommended use:** Cement, Portland, Chemicals  
**Restrictions on use:** Not known

**Manufacturer Information**

**Preferred Deck Systems**  
**7534 W. Madison St.**  
**Tolleson, AZ 85353**

**Contact Person:** EH&S Department  
**Telephone:** 216-531-9222  
**Emergency Telephone Number:** 800-424-9300

**SECTION 2: Hazard(s) Identification**

**Hazard Classification**

**Health Hazards**

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Skin Sensitizer	Category 1B
Carcinogenicity	Category 1A
Specific Target Organ Toxicity - Single Exposure	Category 3

**Unknown Toxicity – Health**

Acute toxicity, oral	99.82%
Acute toxicity, dermal	100%
Acute toxicity, inhalation, vapor	100%
Acute toxicity, inhalation, dust or mist	100%

**Unknown Toxicity – Environment**

Acute hazards to the aquatic environment	99.37%
Chronic hazards to the aquatic environment	100%

## Label Elements

### Hazard Symbol:



**Signal Word:** Danger

**Hazard Statements:** Causes skin irritation  
Causes serious eye damage  
May cause an allergic skin reaction  
May cause cancer  
May cause respiratory irritation

### Precautionary Statement:

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fumes/gas/mist/vapors/spray. Contaminates work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area.

**Response:** 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 ON SKIN: Wash with plenty of water. If skin irritation or rash occurs, get medical advice/attention. Immediately call a poison control center/doctor. Specific treatment (see this label.) Wash contaminated clothing before reuse.

**Storage:** Store locked up. Store in well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other Hazards Which Do Not Result in GHS Classification:** None.

## SECTION 3: Composition/Information on Ingredients

### Mixtures

Chemical Identity	CAS Number	Content in percent (%)*
Crystalline Silica (Quartz)/Silica Sand	14808-60-7	40-70
Portland Cement	65997-15-1	30-60
Calcium Carbonate (Limestone)	1317-65-3	10-30
Aluminum Oxide	1344-28-1	0.1-1

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in % by volume.

## SECTION 4: First Aid Measures

**Ingestion:** Rinse mouth. If you feel unwell, call a poison control center/doctor.

**Inhalation:** Move to fresh air.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.

**Eye Contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses (if present.) Call a physician or poison control center immediately.

**Most Important Symptoms/Effects, Acute and Delayed:**

**Symptoms:** Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

**Indication of Immediate Medical Attention and Special Treatment is Needed:**

**Treatment:** Symptoms may be delayed.

**SECTION 5: Fire-Fighting Measures**

**General Fire Hazards:** No unusual fire or explosion hazards noted.

**Suitable (and Unsuitable) Extinguishing Media:**

**Suitable Extinguishing Media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable Extinguishing Media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific Hazards Arising From the Chemical:** During fire, gases hazardous to health may be formed.

**Special Protective Equipment and Precautions for Firefighters:**

**Special Fire Fighting Procedures:** No data available.

**Special Protective Equipment for Firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

**Methods and Material for Containment and Cleaning Up:** Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in Accordance with all applicable regulations.

**Environmental Precautions:** Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**SECTION 7: Handling And Storage**

**Precautions for safe handling:** Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Wash hands thoroughly after handling. Avoid contact with skin. Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust.

**Conditions for Safe Storage, Including Any Incompatibilities:** Store locked up.

**SECTION 8: Exposure Controls and Personal Protection**

**Control Parameters:**

**Occupational Exposure Limits:**

Chemical Identity	Type	Exposure Limit Value	Source
Crystalline Silica (Quartz)/ Silica Sand – Respirable Fraction	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
Crystalline Silica (Quartz)/ Silica Sand – Respirable	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)

	TWA	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)
Crystalline Silica (Quartz)/ Silica Sand – Total Dust	TWA	0.3 mg/m <sup>3</sup>	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)
Portland Cement – Respirable Fraction	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (2011)
Portland Cement – Total Dust	PEL	15 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Portland Cement – Respirable Fraction	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Portland Cement	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000). (2000)
Calcium Carbonate (Limestone) – Total Dust	PEL	15 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Calcium Carbonate (Limestone) – Respirable Fraction	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Aluminum Oxide – Respirable Fraction	TWA	1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (2011)
	PEL	5 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)
Aluminum Oxide – Total Dust	PEL	15 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (20 CFR 1910.1000) (02 2006)

Chemical Identity	Type	Exposure Limit Value	Source
Crystalline Silica (Quartz)/ Silica Sand – Respirable Fraction	TWA	0.025 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Crystalline Silica (Quartz)/ Silica Sand – Respirable	TWAE V	0.10 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Crystalline Silica (Quartz)/ Silica Sand – Respirable Dust	TWA	0.10 mg/m <sup>3</sup>	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland Cement – Total Dust	TWA	10 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland Cement – Respirable Fraction	TWA	3 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Portland Cement	TWAE V	10 mg/m <sup>3</sup>	Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)
Portland Cement – Total Dust	TWA	10 mg/m <sup>3</sup>	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
Portland Cement – Respirable Dust	TWA	5 mg/m <sup>3</sup>	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)
Calcium Carbonate (Limestone) – Total Dust	STEL	20 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
	TWA	10 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) – Respirable Fraction	TWA	3 mg/m <sup>3</sup>	Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances,

			Occupational Health and Safety Regulation 296/97, as amended) (07 2007)
Calcium Carbonate (Limestone) – Total Dust	TWA	10 mg/m3	Canada. Quebec OELs (Ministry of Labor – Regulation Respecting the Quality of the Work Environment) (12 2008)

**Appropriate Engineering Controls:** Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**Individual Protection Measures, Such as Personal Protective Equipment:**

**General Information:** Provide easy access to water supply and eye wash facilities. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Eye/Face Protection:** Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

**Skin Protection:**

**Hand Protection:** Use suitable protective gloves if risk of skin contact.

**Other:** Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation, use suitable respirator. Seek advice from local supervisor.

**Hygiene Measures:** Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin.

<b>SECTION 9: Physical and Chemical Properties</b>
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**Appearance:**

**Physical state:** Solid

**Form:** Powder

**Color:** Cream

**Odor:** Odorless

**Odor threshold:** No data available

**pH:** No data available

**Melting point/freezing point:** No data available

**Initial boiling point/boiling range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** No

**Upper/lower flammability or explosive limits:**

**Flammability limit – upper (%):** No data available

**Flammability limit – lower (%):** No data available

**Explosive limit – upper (%):** No data available

**Explosive limit – upper (%):** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** 3.1

**Solubility(ies):**

**Solubility in water:** Miscible with water

**Solubility (other):** No data available



Reproductive Toxicity Product: No data available  
Specific Target Organ Toxicity – Single Exposure Product: No data available  
Specific Target Organ Toxicity – Repeated Exposure Product: No data available  
Aspiration Hazard Product: No data available  
Other Effects: No data available

**SECTION 12: Ecological Information**

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish Product:** No data available  
**Aquatic Invertebrates Product:** No data available

**Chronic hazards to the aquatic environment:**

**Fish Product:** No data available  
**Specified Substance(s):**

Aluminum Oxide NOAEL (Pimephales promelas, 28 d): 4.7 mg/l experimental result

**Aquatic Invertebrates Product:** No data available  
**Toxicity to Aquatic Plants Product:** No data available

**Persistence and Degradability:**

**Biodegradation Product:** No data available  
**BOD/COD Ratio Product:** No data available

**Bioaccumulative Potential:**

**Bioconcentration Factor (BCF) Product:** No data available  
**Partition Coefficient n-octanol/ water (log Kow) Product:** No data available

**Mobility in Soil:** No data available

**Other Adverse Effects:** No data available

**SECTION 13: Disposal Considerations**

**Disposal Instructions:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:** No data available.

**SECTION 14: Transport Information**

**TDG:** Not regulated  
**CFR/DOT:** Not regulated  
**IMDG:** Not regulated

**SECTION 15: Regulatory Information**

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D):**  
None present or none present in regulated quantities.

**US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**  
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**  
None present or none present in regulated quantities.



**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

Hazard Categories

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazards

**SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
Crystalline Silica (Quartz)/ Silica Sand	500 lbs.
Portland Cement	500 lbs.
Calcium Carbonate (Limestone)	500 lbs.
Aluminum Oxide	500 lbs.

**SARA 313 (TRI Reporting)**

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 69.130):**

None present or none present in regulated quantities.

**US State Regulations**

**US California Proposition 65**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

**US New Jersey Worker and Community Right-to-Know Act**

Chemical Identity

- Crystalline Silica (Quartz)/Silica Sand
- Portland Cement
- Calcium Carbonate (Limestone)

**US Massachusetts RTK – Substance List**

Chemical Identity

- Crystalline Silica (Quartz)/Silica Sand
- Portland Cement
- Calcium Carbonate (Limestone)

**US Pennsylvania RTK – Hazardous Substances**

Chemical Identity

- Crystalline Silica (Quartz)/Silica Sand
- Portland Cement
- Calcium Carbonate (Limestone)

**US Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present

**Other Regulations:**

Regulatory VOC (less water and exempt solvent): 0 g/l  
 VOC Method 310: 0.00%



**Inventory Status:**

Australia AICS:	All components in this product are listed on or exempt from the inventory.
Canada DSL Inventory List:	One or more components in this product are not listed on or exempt from the inventory.
EINECS, ELINCS or NLP:	One or more components in this product are not listed on or exempt from the inventory.
Japan (ENCS) List:	One or more components in this product are not listed on or exempt from the inventory.
China Inv. Existing Chemical Substances:	One or more components in this product are not listed on or exempt from the inventory.
Korea Existing Chemicals Inv. (KECI):	One or more components in this product are not listed on or exempt from the inventory.
Canada NDSL Inventory:	One or more components in this product are not listed on or exempt from the inventory.
Philippines PICCS:	One or more components in this product are not listed on or exempt from the inventory.
US TSCA Inventory:	One or more components in this product are not listed on or exempt from the inventory.
New Zealand Inventory of Chemicals:	All components in this product are listed on or exempt from the inventory.
Japan ISHL Listing:	One or more components in this product are not listed on or exempt from the inventory.
Japan Pharmacopoeia Listing:	One or more components in this product are not listed on or exempt from the inventory.

<b>SECTION 16: Other Information, Including Date of Preparation or Last Revision</b>
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<b>Revision Date:</b>	9/18/2015
<b>Version #:</b>	1.0
<b>Further Information:</b>	No data available
<b>Disclaimer:</b>	For Industrial Use Only. Use at Own Risk. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.