

Lyman-Richey Corporation Sand Products

Safety Data Sheet

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

Date of issue: 01/12/16

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Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name :

#10 SAND	92-8 DAKOTA REED SEDGE MIX	GRANULAR BACKFILL (47-B)
½ IN ROAD GRAVEL	95-5 DAKOTA REED SEDGE MIX	ICE CONTROL SAND (NDOR)
¾ X ¼ GRAVEL	ARMOR COAT	M GRAVEL
¾" LIMESTONE	ASPHALT SAND	MILLED DIRT
1 IN CLEAN LIMESTONE	BLOCK SAND	MUD ROCK
1 x ½ GRAVEL	BLOW SAND (MILLED)	NDOR ARMOR COAT
1 x ½ GRAVEL (UNWASHED)	BLOW SAND (NATURAL)	OVERLAY CONCRETE SAND
1-1/2 x ¾ (UNWASHED ROCK)	BORROW	OVERLOAD SAND
1-1/2 X ¾ GRAVEL	C-33 FINE AGGREGATE	P-154 GRANULAR SUB-BASE
1-1/2" LIMESTONE	C-33 SAND	PERVIOUS AGGREGATE
2 x ¾ GRAVEL	CLASS V SAND-GRAVEL	PRE-CRUSHED MATERIAL
2-1/2 x ¾ GRAVEL	CRUSHED CONCRETE	ROAD GRAVEL
3 IN LIMESTONE	CRUSHED GRAVEL	SELECT FILLE (MSE)
3/8 BLOCK SAND	CRUSHED GRAVEL (MICRO-SURFACING)	SELECT GRAN. BACKFILL (4110)
3" ROOFING ROCK	CRUSHED GRAVEL-MO	WASHED ROCK 1 ½'-3'
40% ROAD GRAVEL/60% 47-B SG	CRUSHED HA (45)GRAVEL	WASHED ROCK 3'-6'
4110 SAND	CRUSHED HA(46)GRAVEL	WELL PAK AA
4133 SAND (GRANULAR BACKFILL)	DAKOTA REED SEDGE (6 CY COMP)	
47-B SAND-GRAVEL	DAKOTA REED SEDGE (1.1 CF BAG)	
60% ROAD GRAVEL/40%47-B SG	DIRT	
75-25 CTB BLEND	FILL SAND	
90-10 DAKOTA REED SEDGE MIX	GOLF MIX	

Warning: These products are not to be used for dry blasting. See Section 7.1

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

Use of the substance/mixture : Construction; fill; filtration; road building; building materials

1.3. Details of the supplier of the safety data sheet

Lyman-Richey Corporation
2625 S. 158th. Plaza
Omaha, Ne. 68130
T (402) 556-3600

Product Suppliers: Lyman Richey Sand & Gravel company
910 North 264th. St.
Waterloo, Ne. 68069
T (402) 359-2522

Central Sand & Gravel Company
4521 Howard Blvd.- 68601
Columbus, Ne. 68602-0626
T (402) 564-7141

1.4. Emergency telephone number

Emergency number : CHEMTREC (800) 424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity 4 (Oral)
Carcinogenicity 1A

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Specific Target Organ Toxicity After Repeated Exposure 1

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Harmful if swallowed. May cause cancer through inhalation. Causes damage to lungs through prolonged or repeated exposure.

Prevention statements (GHS-US) :

Read label before use. Do not handle until all safety precautions have been read and understood. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and clothing as well as eye protection. Do not breathe dust. Use the proper respirator, when necessary, to avoid injury.

Response statements (GHS-US) :

If swallowed: Immediately call a doctor. Rinse mouth. If exposed or concerned: Get medical attention.

Storage statements (GHS-US) :

Store to prevent dusting.

Disposal statements (GHS-US) :

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

Supplemental Information

Read and Follow all precautions listed in the Safety Data Sheet available on request or at Hollidaysand.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/>. **Do NOT use these products for sand blasting.**

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.

2.3. Other hazards

Other hazards not contributing to the classification

: Not applicable.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Quartz	(CAS No) 14808-60-7	100	Acute Tox. 4 (Oral), H302 Carc. 1A, H350 STOT RE 1, H372

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact

: If irritation occurs, flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

First-aid measures after eye contact

: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, get medical attention.

First-aid measures after ingestion

: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if distress develops.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation

: May cause respiratory tract irritation.

Symptoms/injuries after skin contact

: May cause skin irritation. Symptoms may include skin abrasion and redness.

Symptoms/injuries after eye contact

: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Symptoms/injuries after ingestion

: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

: Treat for surrounding material.

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5.2. Special hazards arising from the substance or mixture

Fire hazard : None.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Clean up quickly and avoid generating dust. Wear suitable respiratory protection if dusty conditions arise. Avoid contact with eyes.

6.2. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. 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

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes. Do not swallow. Avoid generating and breathing dust. Good housekeeping is important to prevent accumulation of dust. The use of compressed air for cleaning clothing, equipment, etc, is not recommended. When using do not eat, drink or smoke. DO NOT use product for sand blasting. Blasting breaks down natural silica and creates freshly fractured respirable crystalline silica which may lead to silica-related disease in persons exposed at levels exceeding occupational exposure limits.

Hygiene measures : Launder clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : No special storage requirements are needed.

7.3. Specific end use(s)

No additional information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	0.025 mg/m ³ (respirable fraction)
USA OSHA	OSHA PEL (TWA) (mg/m ³)	(30)/(%SiO ₂ + 2) mg/m ³ TWA, (total dust) (250)/(%SiO ₂ + 5) mppcf TWA, (respirable fraction) (10)/(%SiO ₂ + 2) mg/m ³ TWA, (respirable fraction)

8.2. Exposure controls

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

Hand protection : Wear standard work gloves (leather, cotton, coated cotton, etc.) as needed to prevent abrasion.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable clothing common to do-it-yourself projects.

Respiratory protection : A NIOSH approved respirator is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. 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 : Solid.

Appearance : Granular.

Colour : Tan.

Odour : Odorless.

Odour threshold : No data available.

pH : No data available.

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Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
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	: 2.4 – 2.65
Solubility	: No data available.
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 : 0

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

Incompatible materials. Silica is attacked by hydrofluoric acid.

10.5. Incompatible materials

Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, etc. may cause fires.

10.6. Hazardous decomposition products

None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

Quartz (14808-60-7)	
LD50 oral rat	500 mg/kg

Ash Grove Sand Products	
ATE (oral)	500 mg/kg, rat
ATE (dermal)	No data available.
ATE (inhalation)	No data available.

Skin corrosion/irritation	: Based on available data, the classification criteria are not met.
Serious eye damage/irritation	: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	: Based on available data, the classification criteria are not met.
Germ cell mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: May cause cancer.

Quartz (14808-60-7)	
IARC group	1
National Toxicology Program (NTP) Status	2

Reproductive toxicity : Based on available data, the classification criteria are not met.

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Specific target organ toxicity (single exposure)	: Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	: Causes damage to lungs through prolonged or repeated exposure. (Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.)
Aspiration hazard	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: May cause skin irritation. Symptoms may include skin abrasion and redness.
Symptoms/injuries after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/injuries after ingestion	: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.

12.2. Persistence and degradability

Ash Grove Sand Products

Persistence and degradability	No data available.
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12.3. Bioaccumulative potential

Ash Grove Sand Products

Bioaccumulative potential	No data available.
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12.4. Mobility in soil

Ash Grove Sand Products

Ecology - soil	No data available.
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12.5. Other adverse effects

Other adverse effects : No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state 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.

15.1. US Federal regulations

Quartz (14808-60-7)

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

15.3. US State regulations

LRC Sand Products

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.
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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.

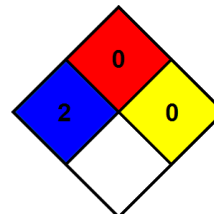
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SECTION 16: Other information

- Data sources : SDS prepared pursuant to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.
- NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is 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