

Sand and Gravel

SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|---------------------------|-----------------|
| Product identifier | Sand and Gravel |
| Chemical Name | Mixture |
| CAS No. | Mixture |
| Trade Name(s) | None |

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

| | |
|----------------------|----------------------------------|
| Identified Use(s) | Hot Mix, Ready Mix, Construction |
| Uses Advised Against | None. |

Details of the supplier of the safety data sheet

Oldcastle Materials - Texas
1320 Arrow Point Drive, Ste. 600
Cedar park, TX 78613
Telephone: 512-861-7100

Emergency telephone number CHEMTREC (800) 424-9300

Not classified as dangerous for supply/use. Please contact the supplier above during normal business hours.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

| | |
|--|---|
| OSHA HCS (29 CFR 1910.1200) / GHS Classification | Not classified as dangerous for supply/use. |
|--|---|

Label elements

Hazard Symbol



Signal Word(s)
Hazard Statement(s)

Danger
May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure.

Precautionary Statement(s)

Prevention - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Response - If exposed or concerned: Get medical advice/attention.
Storage - Restrict or control access to stockpile areas. Engulfment hazard: To prevent burial or suffocation, do not enter a confined space, such as a silo, bulk truck or other storage container or vessel that stores or contains aggregates without an effective procedure for assuring safety.
Disposal - Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

None Known

Sand and Gravel

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Composition/information on ingredients | % wt. | CAS No. |
|---|---------|---------|
| Aggregate (crushed stone, sand, gravel, slag) | 70 - 97 | Various |

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation

Prolonged inhalation may cause chronic health effects. This product contains crystalline silica. Prolonged or repeated inhalation of respirable

Skin Contact

Not normally required.

Eye Contact

Sand and Gravel dust: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Get medical attention if irritation develops or persists.

Ingestion

Not normally required. Get medical advice/attention if you feel unwell.

Most important symptoms and effects, both acute and delayed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Indication of any immediate medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-existing medical conditions that may be aggravated by exposure include disorders of the eye, skin and lung (including asthma and other breathing disorders). If addicted to tobacco, smoking will impair the ability of the lungs to clear themselves of dust.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media

No unusual fire or explosion hazards noted. Not a combustible dust..

-Unsuitable Extinguishing Media

None anticipated.

Special hazards arising from the substance or mixture

Contact with powerful oxidizing agents may cause fire and/or explosions (see section 10 of SDS).

Advice for fire-fighters

Use protective equipment appropriate for surrounding materials.

Sand and Gravel

SECTION 6: ACCIDENTAL RELEASE MEASURES

| | |
|--|---|
| Personal precautions, protective equipment and emergency procedures | Spilled material, where dust is generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. |
| Environmental precautions | Avoid discharge of fine particulate matter into drains or water courses. |
| Methods and material for containment and cleaning up | Do not dry sweep or use compressed air for clean-up. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. |
| Reference to other sections | None |
| Additional Information | None. |

SECTION 7: HANDLING AND STORAGE

| | |
|---|--|
| Precautions for safe handling | Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid dust formation or accumulation. |
| Conditions for safe storage, including any incompatibilities | |
| -Storage temperature | None |
| -Incompatible materials | Strong/powerful oxidizing agents. |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|---|---------|---|---------------------------|------------|-------------|-----------|
| | | PEL (OSHA) * | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| Crystalline Silica (respirable particulate) | ----- | $\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ | 0.025 mg/m ³ ^ | ----- | ----- | See below |

⁽¹⁾ Respirable Crystalline Silica; ^Suspected Human Carcinogen; *Refer to OSHA 29 CFR 1910.1000; 8hr TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit.

Recommended monitoring method NIOSH 7500 (Crystalline Silica)

Exposure controls:

Appropriate engineering controls Use only outdoors or in a well-ventilated area.

Personal protection equipment

Eye/face protection

The following to be used as necessary: Safety Glasses or Goggles



Sand and Gravel

Skin protection (Hand protection/ Other)



The following to be used as necessary: Leather or thick textile gloves.

Respiratory protection



In case of inadequate ventilation wear respiratory protection. Use NIOSH approved respiratory protection such as a N95 respirator. Check with protective equipment manufacturer's data.

Thermal hazards

Use gloves with insulation for thermal protection, when needed.

Environmental Exposure Controls

Avoid discharge of fine particulate matter into drains or water courses.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | |
|--|--------------------|
| Appearance | Solid |
| Color. | Light tan to brown |
| Odor | None |
| Odor Threshold (ppm) | Not available. |
| pH (Value) | Not available. |
| Melting Point (°C) / Freezing Point (°C) | Not available. |
| Boiling point/boiling range (°C): | None |
| Flash Point (°C) | None |
| Evaporation Rate | Not available. |
| Flammability (solid, gas) | Not applicable. |
| Explosive Limit Ranges | Not applicable. |
| Vapor pressure (Pascal) | Not determined. |
| Vapor Density (Air=1) | Not determined. |
| Density (g/ml) | Not available |
| Solubility (Water) | Negligible |
| Solubility (Other) | Not known |
| Partition Coefficient (n-Octanol/water) | Not available. |
| Auto Ignition Point (°C) | Not available. |
| Decomposition Temperature (°C) | Not available. |
| Kinematic Viscosity (cSt) @ 40°C | Not available |
| Explosive properties | Not explosive. |
| Oxidizing properties | Not oxidizing. |
| Other information | Not available. |

SECTION 10: STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity | Stable under normal conditions. |
| Chemical stability | Stable. |
| Possibility of hazardous reactions | May react violently with: Strong oxidizing agents |
| Conditions to avoid | Incompatible materials |
| Incompatible materials | Oxidizers |
| Hazardous decomposition product(s) | Will not burn |

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects

Sand and Gravel

| | |
|------------------------|---|
| Acute toxicity | None Known |
| Irritation/Corrosivity | May cause irritation to skin, eyes and respiratory system. |
| Sensitization | Not to be expected |
| Repeated dose toxicity | None Known |
| Carcinogenicity | Respirable crystalline silica has been classified by IARC and NTP as a known human carcinogen, and classified by ACGIH as a suspected human carcinogen. |

| NTP | IARC | ACGIH | OSHA |
|------|-------|----------------------|------|
| Yes* | Yes** | Suspected Carcinogen | No. |

| | |
|-----------------------|---------------------|
| Mutagenicity | Not to be expected. |
| Reproductive toxicity | Not to be expected. |

| | | |
|-------------------|---|--|
| Other information | <p>* NTP Report on Carcinogens Crystalline Silica(Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen</p> <p>** IARC Monographs. Overall Evaluation of Carcinogenicity Crystalline Silica(Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans. Respirable Tridymite and Cristobalite 1 Carcinogenic to humans. (other forms of Crystalline) (CAS Mixture)</p> | |
| Chronic Effects | Prolonged inhalation of respirable crystalline silica may be harmful. May cause damage to organs (lungs) through prolonged or repeated exposure. There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects. | |
| Target Organ Tox. | Respirable crystalline silica: May cause damage to organs (lung) through prolonged or repeated exposure. | |

SECTION 12: ECOLOGICAL INFORMATION

| | |
|--------------------------------------|--|
| Ecotoxicity | Not expected to be harmful to aquatic organisms. |
| Persistence and degradability | N/A. |
| Bioaccumulative potential | The product has ultra-low potential for bioaccumulation. |
| Mobility in soil | N/A |
| Results of PBT assessment | Not classified as PBT. |
| Other adverse effects | None known. |

SECTION 13: DISPOSAL CONSIDERATIONS

| | |
|--------------------------------|--|
| Waste treatment methods | Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice. |
| Additional Information | None known. |

SECTION 14: TRANSPORT INFORMATION

| | |
|--|-----------------------------------|
| Ground, Air or Water Domestic Voyage (DOT): | Not regulated as dangerous goods. |
|--|-----------------------------------|

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: Not Regulated

Sand and Gravel

RCRA Hazardous Waste Number (40 CFR 261.33): None

US RCRA Hazard Class: Not applicable.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---------------|---------|--------------|-------------|
| None | ----- | ----- | ----- |

SARA 311/312 - Hazard Categories: None

Fire Sudden Release Reactivity Immediate (acute) Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

| Chemical Name | CAS No. | Typical %wt. |
|---------------|---------|--------------|
| None | ----- | ----- |

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

| Chemical Name | CAS No. | Typical %wt. | TPQ (pounds) |
|---------------|---------|--------------|--------------|
| None | ----- | ----- | ----- |

SECTION 16: OTHER INFORMATION

Additional Information

US state regulations

US. Massachusetts RTK - Substance List

Crystalline Silica(Quartz) (CAS 14808-60-7)

Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

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

Crystalline Silica(Quartz) (CAS 14808-60-7)

Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline Silica(Quartz) (CAS 14808-60-7)

Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Crystalline Silica(Quartz) (CAS 14808-60-7)

Issue date 6/11/2015
Revision date 8/31/2016

Disclaimer: While the information provided in this safety data sheet is believed to provide a useful summary of the hazards of hot mix material 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 appropriate 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 hot mix. The information provided herein was believed by Oldcastle Materials 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.