

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

1 Identification· **Product identifier**· **Trade name:** Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate· **Relevant identified uses of the substance or mixture and uses advised against**· **Product description**

Synonyms: Base, Class 5 Gravel, Class 6 Gravel, Mason Sand, Concrete Sand, Buckshot, Fine or Coarse Filter Aggregate, Landscape Rock, Fill Sand, Pit Run.

· **Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:**Barton Sand & Gravel Co.
7200 Hemlock Lane, Suite 200
Maple Grove, MN 55311
Phone: (763) 425-4191
www.tillercorp.com· **Emergency telephone number:** (763) 425-4191*** 2 Hazard(s) identification**· **Classification of the substance or mixture**

GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335 May cause respiratory irritation.

Eye Irrit. 2B H320 Causes eye irritation.

· **Additional information:**

Natural aggregate can cause abrasion or irritation to skin and eyes.

Construction aggregate can cause gastrointestinal irritation if ingested.

Respirable dust inhaled over a periods of time could constitute a health hazard. Dust from some construction aggregates will contain respirable crystalline silica.

· **Label elements**· **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS07



GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

Sand, Gravel and Crushed Stone

Quartz (SiO₂)

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

· **Hazard statements**

- Causes skin and eye irritation.
- May cause cancer.
- May cause respiratory irritation.

· **Precautionary statements**

- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area.
- Wear protective gloves.
- Wash thoroughly after handling.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a poison center/doctor if you feel unwell.
- IF exposed or concerned: Get medical advice/attention.
- If skin irritation occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- If on skin: Wash with plenty of water.
- Take off contaminated clothing and wash it before reuse.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Unknown acute toxicity:**

99 percent of the mixture consists of ingredient(s) of unknown toxicity.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMS-ratings (scale 0 - 4)**



· **Hazard(s) not otherwise classified (HNOC):** None known

*** 3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous Components:**

| | | |
|--------------------------------------|---|--------|
| | Sand, Gravel and Crushed Stone ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 | 90-99% |
| CAS: 14808-60-7 RTECS: VV 7330000 | Quartz (SiO ₂) ⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320 | <1% |

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate*** 4 First-aid measures****· Description of first aid measures****· After inhalation:**

Supply fresh air.

Consult a doctor for complaints.

In case of unconsciousness, place patient securely on side position for transportation.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

If swallowed and symptoms occur, consult a doctor.

Rinse out mouth and then drink plenty of water.

Do not induce vomiting.

· Information for doctor:**· Most important symptoms and effects, both acute and delayed:** No further relevant information available.**· Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

*** 5 Fire-fighting measures****· Extinguishing media****· Suitable extinguishing agents:**CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**· Special hazards arising from the substance or mixture** No further relevant information available.**· Advice for firefighters****· Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

*** 6 Accidental release measures****· Personal precautions, protective equipment and emergency procedures**

Avoid formation of dust.

Wear protective clothing.

· Environmental precautions: Do not allow to enter sewers/ surface or ground water.**· Methods and material for containment and cleaning up:**

Powder and fragments should be cleaned up using a method that will avoid the generation of dust in the workplace atmosphere. The use of a vacuum cleaner fitted with an exhaust air filter fine enough to trap the dust is recommended.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

*** 7 Handling and storage****· Handling:****· Precautions for safe handling** No special precautions are necessary if used correctly.

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

*** 8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**

| | |
|--|---|
| · Components with occupational exposure limits: | |
| Sand, Gravel and Crushed Stone | |
| PEL | Short-term value: 5 mg/m ³ Long-term value: 15 mg/m ³ |
| 14808-60-7 Quartz (SiO₂) | |
| PEL | see Quartz listing |
| REL | Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A |
| TLV | Long-term value: 0.025* mg/m ³ *as respirable fraction |

- **Additional information:**
Engineering Controls (Ventilation etc.): Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:**
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. NIOSH/MSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits identified. Where no required/recommended exposure limits exist, personal protection measures should be incorporated when potential airborne concentrations may exceed 10 mg/m³ total dust and 3 mg/m³ respirable dust (particulate containing no asbestos and <1% crystalline silica).
Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Tightly sealed goggles

*** 9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Granulate

Color:

Various colors

Odor:

Odorless

Odor threshold:

Not determined.

pH-value:

Not applicable.

Change in condition**Melting point/Melting range:**

Not determined.

Boiling point/Boiling range:

Not determined.

Flash point:

Not applicable.

Flammability (solid, gaseous):

Not determined.

Ignition temperature:**Decomposition temperature:**

Not determined.

Auto igniting:

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:**Lower:**

Not determined.

Upper:

Not determined.

Vapor pressure:

Not applicable.

Density:**Relative density**

Not determined.

Vapor density

Not applicable.

Evaporation rate

Not applicable.

Solubility in / Miscibility with**Water:**

Insoluble.

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not applicable.
 - Kinematic:** Not applicable.
- **Solvent content:**
 - Organic solvents:** 0.0 %
 - Solids content:** 99.9 %
- **Other information** No further relevant information available.

* 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

14808-60-7 Quartz (SiO₂)

| | | |
|------------|---------------|-------------------|
| Inhalative | LC50/96 hours | 1033 mg/l (Trout) |
|------------|---------------|-------------------|

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:**

Irritating effect.

Causes serious eye irritation.

· **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

| | | | |
|------------|----------------------------|--|---|
| 14808-60-7 | Quartz (SiO ₂) | | 1 |
|------------|----------------------------|--|---|

· **NTP (National Toxicology Program)**

| | | | |
|------------|----------------------------|--|---|
| 14808-60-7 | Quartz (SiO ₂) | | K |
|------------|----------------------------|--|---|

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.

(Contd. on page 7)



Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

14808-60-7 Quartz (SiO₂)

EC50 218 mg/l (Green algae)

- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name**
- **DOT, ADR, ADN, IMDG, IATA** Non-Regulated Material
- **Transport hazard class(es)**
- **DOT, ADR, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **Packing group**
- **DOT, ADR, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** -

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

| | |
|---|----------------------------|
| · Section 313 (Specific toxic chemical listings): | |
| None of the ingredients are listed. | |
| · TSCA (Toxic Substances Control Act): | |
| 14808-60-7 | Quartz (SiO ₂) |
| · California Proposition 65 | |
| · Chemicals known to cause cancer: | |
| 14808-60-7 | Quartz (SiO ₂) |
| · Chemicals known to cause reproductive toxicity for females: | |
| None of the ingredients are listed. | |
| · Chemicals known to cause reproductive toxicity for males: | |
| None of the ingredients are listed. | |
| · Chemicals known to cause developmental toxicity: | |
| None of the ingredients are listed. | |
| · Carcinogenic categories | |
| · EPA (Environmental Protection Agency) | |
| None of the ingredients are listed. | |
| · TLV (Threshold Limit Value established by ACGIH) | |
| 14808-60-7 | Quartz (SiO ₂) |
| | A2 |
| · NIOSH-Ca (National Institute for Occupational Safety and Health) | |
| 14808-60-7 | Quartz (SiO ₂) |

· **GHS label elements**

The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labeling:**

Sand, Gravel and Crushed Stone
Quartz (SiO₂)

· **Hazard statements**

Causes skin and eye irritation.
May cause cancer.
May cause respiratory irritation.

· **Precautionary statements**

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

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 06/02/2015

Reviewed on 06/02/2015

Trade name: Gravel, Washed Sand or Washed Rock, Select, Granular or Common Borrow, Bituminous Aggregate

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Call a poison center/doctor if you feel unwell.
 IF exposed or concerned: Get medical advice/attention.
 If skin irritation occurs: Get medical advice/attention.
 If eye irritation persists: Get medical advice/attention.
 If on skin: Wash with plenty of water.
 Take off contaminated clothing and wash it before reuse.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· **State Right to Know**

| | | |
|--------------------------------------|---|--------|
| | Sand, Gravel and Crushed Stone | 90-99% |
| | ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320 | |
| CAS: 14808-60-7 RTECS: VV 7330000 | Quartz (SiO ₂) | ≤ 2.5% |
| | ⚠ Carc. 1A, H350; STOT RE 1, H372; ⚠ Acute Tox. 4, H332; STOT SE 3, H335; Eye Irrit. 2B, H320 | |
| All ingredients are listed. | | |

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision** 06/02/2015 / 1

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2B: Serious eye damage/eye irritation, Hazard Category 2B
 Carc. 1A: Carcinogenicity, Hazard Category 1A
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

· *** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106