

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

## 1 Identification

- **Product identifier**
- **Trade name:** Sand, White, Fine
- **Article number:** S0857
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Aqua Solutions, Inc.  
6913 Highway 225  
DEER PARK, TX 77536  
USA  
800-256-2586
- **Information department:**  
Technical Coordinator  
Sherman Nelson sherman@aquasolutions.org
- **Emergency telephone number:**  
Chemtrec: 800-424-9300  
Canutec: 613-996-6666



## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 1A H350 May cause cancer.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
Crystalline Silica, Quartz
- **Hazard statements**  
May cause cancer.  
Causes damage to organs through prolonged or repeated exposure.
- **Precautionary statements**  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not breathe dusts or mists.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Wear eye protection / face protection.  
IF exposed or concerned: Get medical advice/attention.  
Get medical advice/attention if you feel unwell.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

|            |   |                |
|------------|---|----------------|
| HEALTH     | 0 | Health = *0    |
| FIRE       | 0 | Fire = 0       |
| REACTIVITY | 0 | Reactivity = 0 |

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

#### · **Dangerous components:**

|                 |   |       |
|-----------------|---|-------|
| CAS: 14808-60-7 | Crystalline Silica, Quartz              | 70.0% |
| CAS: 1344-28-1  | Aluminum Oxide, Technical Grade, Powder | 14.2% |
| CAS: 12136-45-7 | dipotassium oxide                       | 12.0% |
| CAS: 1309-37-1  | Ferric Oxide Red                        | 2.0%  |
| CAS: 1305-78-8  | Calcium Oxide                           | 1.1%  |
| CAS: 13463-67-7 | Titanium Dioxide                        | 0.7%  |

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** Use fire fighting measures that suit the environment.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 2)

- **Special hazards arising from the substance or mixture**  
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **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.
- **Protective Action Criteria for Chemicals**

### · PAC-1:

|                 |   |                         |
|-----------------|---|-------------------------|
| CAS: 14808-60-7 | Crystalline Silica, Quartz              | 0.075 mg/m <sup>3</sup> |
| CAS: 1344-28-1  | Aluminum Oxide, Technical Grade, Powder | 15 mg/m <sup>3</sup>    |
| CAS: 12136-45-7 | dipotassium oxide                       | 0.18 mg/m <sup>3</sup>  |
| CAS: 1309-37-1  | Ferric Oxide Red                        | 15 mg/m <sup>3</sup>    |
| CAS: 1305-78-8  | Calcium Oxide                           | 6 mg/m <sup>3</sup>     |
| CAS: 13463-67-7 | Titanium Dioxide                        | 30 mg/m <sup>3</sup>    |

### · PAC-2:

|                 |   |                       |
|-----------------|---|-----------------------|
| CAS: 14808-60-7 | Crystalline Silica, Quartz              | 33 mg/m <sup>3</sup>  |
| CAS: 1344-28-1  | Aluminum Oxide, Technical Grade, Powder | 170 mg/m <sup>3</sup> |
| CAS: 12136-45-7 | dipotassium oxide                       | 2 mg/m <sup>3</sup>   |
| CAS: 1309-37-1  | Ferric Oxide Red                        | 360 mg/m <sup>3</sup> |
| CAS: 1305-78-8  | Calcium Oxide                           | 110 mg/m <sup>3</sup> |
| CAS: 13463-67-7 | Titanium Dioxide                        | 330 mg/m <sup>3</sup> |

### · PAC-3:

|                 |   |                         |
|-----------------|---|-------------------------|
| CAS: 14808-60-7 | Crystalline Silica, Quartz              | 200 mg/m <sup>3</sup>   |
| CAS: 1344-28-1  | Aluminum Oxide, Technical Grade, Powder | 990 mg/m <sup>3</sup>   |
| CAS: 12136-45-7 | dipotassium oxide                       | 54 mg/m <sup>3</sup>    |
| CAS: 1309-37-1  | Ferric Oxide Red                        | 2,200 mg/m <sup>3</sup> |
| CAS: 1305-78-8  | Calcium Oxide                           | 660 mg/m <sup>3</sup>   |
| CAS: 13463-67-7 | Titanium Dioxide                        | 2,000 mg/m <sup>3</sup> |

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 3)

- **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 item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.  
At this time, the remaining constituent has no known exposure limits.

### CAS: 14808-60-7 Crystalline Silica, Quartz

|     |  |
|-----|--|
| PEL | Long-term value: 0.05* mg/m <sup>3</sup><br>*resp. dust; 30mg/m <sup>3</sup> /‰SiO <sub>2</sub> +2 |
| REL | Long-term value: 0.05* mg/m <sup>3</sup><br>*respirable dust; See Pocket Guide App. A              |
| TLV | Long-term value: 0.025* mg/m <sup>3</sup><br>*as respirable fraction                               |

### CAS: 1344-28-1 Aluminum Oxide, Technical Grade, Powder

|     |  |
|-----|--|
| PEL | Long-term value: 15*; 5** mg/m <sup>3</sup><br>*Total dust; ** Respirable fraction               |
| REL | Long-term value: 10* 5** mg/m <sup>3</sup><br>as Al*Total dust**Respirable/pyro powd./welding f. |
| TLV | Long-term value: 1* mg/m <sup>3</sup><br>as Al; *as respirable fraction                          |

### CAS: 1309-37-1 Ferric Oxide Red

|     |  |
|-----|--|
| PEL | Long-term value: 10* mg/m <sup>3</sup><br>*Fume                  |
| REL | Long-term value: 5 mg/m <sup>3</sup><br>Dust & fume, as Fe       |
| TLV | Long-term value: 5* mg/m <sup>3</sup><br>*as respirable fraction |

### CAS: 1305-78-8 Calcium Oxide

|     |                                      |
|-----|--------------------------------------|
| PEL | Long-term value: 5 mg/m <sup>3</sup> |
| REL | Long-term value: 2 mg/m <sup>3</sup> |
| TLV | Long-term value: 2 mg/m <sup>3</sup> |

### CAS: 13463-67-7 Titanium Dioxide

|     |   |
|-----|---|
| PEL | Long-term value: 15* mg/m <sup>3</sup><br>*total dust |
| REL | See Pocket Guide App. A                               |
| TLV | Long-term value: 10 mg/m <sup>3</sup>                 |

- **Additional information:** The lists that were valid during the creation were used as basis.

(Contd. on page 5)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 4)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Store protective clothing separately.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the 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 can not 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 found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

|                        |                 |
|------------------------|-----------------|
| <b>Form:</b>           | Solid           |
| <b>Color:</b>          | White or tan    |
| <b>Odor:</b>           | Odorless        |
| <b>Odor threshold:</b> | Not determined. |

- **pH-value:** Not applicable.

- **Change in condition**

|                                     |                     |
|-------------------------------------|---------------------|
| <b>Melting point/Melting range:</b> | Undetermined.       |
| <b>Boiling point/Boiling range:</b> | 2,980 °C (5,396 °F) |

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not determined.

- **Decomposition temperature:** Not determined.

(Contd. on page 6)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 5)

|   |   |
|---|---|
| · <b>Auto igniting:</b>                           | Product is not selfigniting.                                    |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard.                   |
| · <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                     | Not determined.   |
| <b>Upper:</b>                                     | Not determined.   |
| · <b>Vapor pressure:</b>                          | Not applicable.   |
| · <b>Density at 20 °C (68 °F):</b>                | ~2.55487~2.83487 g/cm <sup>3</sup> (~21.32039~23.65699 lbs/gal) |
| · <b>Relative density</b>                         | Not determined.   |
| · <b>Vapor density</b>                            | Not applicable.   |
| · <b>Evaporation rate</b>                         | Not applicable.   |
| · <b>Solubility in / Miscibility with Water:</b>  | Insoluble.  |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.   |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | Not applicable.   |
| <b>Kinematic:</b>                                 | Not applicable.   |
| · <b>Solvent content:</b>                         |   |
| <b>VOC content:</b>                               | 0.00 %  |
| <b>Solids content:</b>                            | 100.0 %   |
| · <b>Other information</b>                        | No further relevant information available.                      |

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **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:**
- **Primary irritant effect:**
- on the skin:** No irritant effect.
- on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:
- **Carcinogenic categories**

|   |                            |   |
|---|----------------------------|---|
| · <b>IARC (International Agency for Research on Cancer)</b> |                            |   |
| CAS: 14808-60-7   | Crystalline Silica, Quartz | 1 |
| CAS: 1309-37-1  | Ferric Oxide Red           | 3 |

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 6)

CAS: 13463-67-7 Titanium Dioxide

2B

· **NTP (National Toxicology Program)**

CAS: 14808-60-7 Crystalline Silica, Quartz

K

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

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **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:**  
Water hazard class 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b><br>· <b>DOT, IMDG, IATA</b>   | Not regulated   |
| · <b>UN proper shipping name</b><br>· <b>DOT, IMDG, IATA</b>                           | Not regulated   |
| · <b>Transport hazard class(es)</b><br>· <b>DOT, ADN, IMDG, IATA</b><br>· <b>Class</b> | Not regulated   |
| · <b>Packing group</b><br>· <b>DOT, IMDG, IATA</b>                                     | Not regulated   |
| · <b>Environmental hazards:</b>  | Not applicable. |
| · <b>Special precautions for user</b>  | Not applicable. |

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

Trade name: Sand, White, Fine

(Contd. of page 7)

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **UN "Model Regulation":** Not regulated

## 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 is listed.

· **Section 313 (Specific toxic chemical listings):**

CAS: 1344-28-1 | Aluminum Oxide, Technical Grade, Powder

· **TSCA (Toxic Substances Control Act):**

|   |        |
|---|--------|
| Crystalline Silica, Quartz              | ACTIVE |
| Aluminum Oxide, Technical Grade, Powder | ACTIVE |
| dipotassium oxide                       | ACTIVE |
| Ferric Oxide Red                        | ACTIVE |
| Calcium Oxide                           | ACTIVE |
| Titanium Dioxide                        | ACTIVE |

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

CAS: 14808-60-7 | Crystalline Silica, Quartz

CAS: 13463-67-7 | Titanium Dioxide

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

|                 |   |    |
|-----------------|---|----|
| CAS: 14808-60-7 | Crystalline Silica, Quartz              | A2 |
| CAS: 1344-28-1  | Aluminum Oxide, Technical Grade, Powder | A4 |
| CAS: 1309-37-1  | Ferric Oxide Red                        | A4 |
| CAS: 13463-67-7 | Titanium Dioxide                        | A4 |

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

CAS: 14808-60-7 | Crystalline Silica, Quartz

CAS: 13463-67-7 | Titanium Dioxide

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 05/06/2019

Reviewed on 05/06/2019

**Trade name: Sand, White, Fine**

(Contd. of page 8)

- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
*Crystalline Silica, Quartz*
- **Hazard statements**  
*May cause cancer.*  
*Causes damage to organs through prolonged or repeated exposure.*
- **Precautionary statements**  
*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*Do not breathe dusts or mists.*  
*Wash thoroughly after handling.*  
*Do not eat, drink or smoke when using this product.*  
*Wear eye protection / face protection.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Get medical advice/attention if you feel unwell.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **National regulations:**
- **Information about limitation of use:**  
*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.*  
*Exceptions can be made by the authorities in certain cases.*
- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing SDS:** *Environment protection department.*
- **Contact:**
- **Date of preparation / last revision**  
*Revision 0.0, 05-03-2019: Creation date for SDS. STN*  
*05/06/2019 / -*
- **Abbreviations and acronyms:**  
*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)*  
*VOC: Volatile Organic Compounds (USA, EU)*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*NIOSH: National Institute for Occupational Safety*  
*OSHA: Occupational Safety & Health*

(Contd. on page 10)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 05/06/2019

Reviewed on 05/06/2019

**Trade name: Sand, White, Fine**

(Contd. of page 9)

*TLV: Threshold Limit Value*

*PEL: Permissible Exposure Limit*

*REL: Recommended Exposure Limit*

*Carc. 1A: Carcinogenicity – Category 1A*

*STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1*

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