



Product Name: Aggregates and Sand  
Revision Date: June 10, 2015

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## SAFETY DATA SHEET

### SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

#### PRODUCT

**Product Name:** Aggregates and Sand  
**Product Description:** Crushed Stone, Sand, and Gravel  
**Other means of Identification:** Refer to delivery ticket  
**Product Code:** Various  
**Intended Use:** Construction.

#### COMPANY IDENTIFICATION

**Supplier:** Syar Industries, Inc.  
2301 Napa-Vallejo Highway  
NAPA, CA 94558

**24 Hour Health:** 707-643-3261

### SECTION 2 HAZARDS IDENTIFICATION

**HAZARD NOT OTHERWISE CLASSIFIED (HNOC):** None as defined under 29 CFR 1900.1200.

**SIGNAL WORD:** Warning

#### PHYSICAL / CHEMICAL HAZARDS

Avoid inhalation of dust generated from mechanical handling of hardened/dried material. Breathing silica containing dust for prolonged periods in the workplace can cause lung damage and lung disease called silicosis. Several scientific organizations have classified crystalline silica as causing lung cancer in humans. Silicosis and lung cancer can result in permanent injury or death.

#### HEALTH HAZARDS

Crystalline silica-containing dust particles can be generated. See Section 11 for additional information.

#### ENVIRONMENTAL HAZARDS

No significant hazards.

#### HAZARD PICTOGRAMS:



**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.



**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

This material is defined as a mixture.

**Hazardous Substance(s) or Complex Substance(s) required for disclosure**

Name	CAS#	Concentration*	GHS Hazard Codes
Aggregate	64742-65-0	100	
Silica, crystalline – Quartz	14808-60-7	Varies	

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

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

**SECTION 4 FIRST AID MEASURES**

**INHALATION**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**SKIN CONTACT**

Flush skin with clean water for at least 15 minutes. Remove and wash contaminated clothing. Contact a physician if irritation persists or later develops.

**EYE CONTACT**

Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Contact a physician if irritation persists or later develops.

**INGESTION**

If swallowed, do not induce vomiting. Drink a large volume of water and get immediate medical attention. Never give anything by mouth to an unconscious person. If vomiting occurs, keep head lower than hips to prevent aspiration.

**SECTION 5 FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Appropriate Extinguishing Media: N/A  
Inappropriate Extinguishing Media: N/A

**FIRE FIGHTING**

Fire Fighting Instructions: N/A  
Hazardous Combustion Products: N/A

**FLAMMABILITY PROPERTIES**

Flash Point [Method]: N/A  
Flammable Limits (Approximate volume % in air): LEL: NE UEL: NE  
Autoignition Temperature: N/D



**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**NOTIFICATION PROCEDURES**

Prevent materials from entering streams, drainages, or sewers. Spills entering surface waters or sewers entering/leading to surface waters must be reported to the National Response Center 1-800-424-8802. Based on volume and use, components of this product may be subject to reporting requirements of Title III of SARA, 1986, and 40 CFR 372.

**PROTECTIVE MEASURES**

Keep unnecessary personnel away. Local authorities should be advised if significant spills cannot be contained.

**SPILL MANAGEMENT**

Personnel involved in cleanup processes should implement controls as identified in Section VIII as appropriate.

**ENVIRONMENTAL PRECAUTIONS**

Collect adsorbed product and clean up materials in appropriate container for proper disposal. Notify proper authorities.

**SECTION 7 HANDLING AND STORAGE**

**HANDLING**

Respirable crystalline silica-containing dust may be generated during processing, handling, and storage. Use personal protection and controls identified in Section 8 of this MSDS as appropriate. Follow personal protection and protective controls set forth in Section 8 of this SDS when handling this product.

**STORAGE**

Follow personal protection and protective controls set forth in Section 8 of this MSDS when handling this product. Do not store near food, beverages or smoking materials.

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

Exposure limits/standards (Note: Exposure limits are not additive)

Substance Name	Form	Limit / Standard	NOTE	Source	
CRYSTALLINE SILICA (QUARTZ, CRISTOBALITE, TRIDYMITE)	Solid	TLV	0.025 mg/m <sup>3</sup>	N/A	ACGIH
PARTICULATE NOT OTHERWISE CLASSIFIED	Dust	TLV	10 mg/m <sup>3</sup> (inhalable fraction) 3 mg/m <sup>3</sup> (respirable fraction)	N/A	OSHA

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following are recommended: 5 mg/m<sup>3</sup> - ACGIH TLV (inhalable fraction), 5 mg/m<sup>3</sup> - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

No biological limits allocated.

**ENGINEERING CONTROLS**

Activities with dried/hardened product that generate dust require the use of general ventilation, local exhaust and/or wet suppression methods to maintain exposures below appropriate exposure limits.



## PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** Not expected to be necessary under normal use and working conditions. All respirators must be NIOSH-approved for the exposure levels present. (See NIOSH Respirator Selection Guide). The need for respiratory protection should be evaluated by a qualified safety and health professional.

For air-contaminant concentrations which exceed or are likely to exceed applicable exposure limits, use a NIOSH approved, contaminant-specific, air purifying respirator. If such conditions are sufficiently high that the air purifying respirator is inadequate, or if oxygen adequate to sustain life is not present, use a positive-pressure, self-contained breathing apparatus. Activities that generate dust require the use of an appropriate dust respirator where dust levels exceed or are likely to exceed allowable exposure limits. For respirable silica

levels that exceed or are likely to exceed an 8-hour Time Weighted Average (TWA) of 0.5 mg/m<sup>3</sup>, a high-efficiency particulate filter respirator must be worn at a minimum; however, if respirable silica levels exceed or are likely to exceed an 8-hour TWA of 5.0 mg/m<sup>3</sup> a positive-pressure, full-face respirator or equivalent is required. Respirator use must comply with applicable MSHA (42 CFR 84) or OSHA (29 CFR 1910.134) standards, which include provisions for a user training program, respirator inspection, repair and cleaning, respirator fit testing, medical surveillance and other requirements. For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

**Eye Protection:** Safety glasses with side shields should be worn as minimum protection at ambient temperatures.

**Skin and Body Protection:** Avoid skin contact with material by wearing impervious gloves and protective clothing.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

## ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Note:** Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.



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#### GENERAL INFORMATION

**Physical State:** Solid  
**Color:** Gray, Brown  
**Odor:** N/A  
**Odor Threshold:** N/A

#### IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

**Specific Gravity:** 2.4-2.8  
**Flammability (Solid, Gas):** N/A

**Flash Point:** N/A  
**Flammable Limits (Approximate volume % in air):** N/A  
**Autoignition Temperature:** N/A

**Boiling Point / Range:** N/A  
**Decomposition Temperature:** N/D  
**Vapor Density (Air = 1):** N/D  
**Vapor Pressure:** N/A  
**Evaporation Rate (n-butyl acetate = 1):** N/D  
**pH:** N/A  
**Log Pow (n-Octanol/Water Partition Coefficient):** N/A  
**Solubility in Water:** N/A  
**Viscosity:** N/A  
**Oxidizing Properties:** See Hazards Identification Section.

#### OTHER INFORMATION

**Freezing Point:** N/D  
**Melting Point:** N/A  
**Pour Point:** N/A  
**DMSO Extract (mineral oil only), IP-346:** N/A

<b>SECTION 10</b>	<b>STABILITY AND REACTIVITY</b>
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**REACTIVITY:** N/A

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** N/A

**MATERIALS TO AVOID:** N/A

**HAZARDOUS DECOMPOSITION PRODUCTS:** N/A

**POSSIBILITY OF HAZARDOUS REACTIONS:** Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, oxygen difluoride and hydrogen peroxide yielding possible fire and/or explosions. Silica is also incompatible with acetylene and ammonia. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.



**SECTION 11 TOXICOLOGICAL INFORMATION**

**INFORMATION ON TOXICOLOGICAL EFFECTS**

<b>Hazard Class</b>	<b>Conclusion / Remarks</b>
<b>Inhalation</b>	
Acute Toxicity: No end point data for material.	May be harmful if inhaled.
<b>Ingestion</b>	
Acute Toxicity: No end point data for material.	May be harmful if ingested.
<b>Skin</b>	
Acute Toxicity: No end point data for material.	May cause skin irritation.
<b>Eye</b>	
Serious Eye Damage/Irritation: No end point data for material.	May cause eye irritation.
<b>Sensitization</b>	
<b>Respiratory Sensitization:</b> No end point data for material.	Based on available data, the classification criteria are not met.
<b>Skin Sensitization:</b> No end point data for material.	Based on available data, the classification criteria are not met.
<b>Aspiration:</b> Data available.	Based on available data, the classification criteria are not met.
<b>Germ Cell Mutagenicity:</b> No end point data for material.	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b> No end point data for material.	Crystalline silica, a component of this product, is listed by IARC as a carcinogen. The IARC has determined that there is sufficient evidence of carcinogenicity in experimental animals exposed to crystalline silica and limited evidence of its carcinogenicity in humans. The NTP has listed respirable crystalline silica as a known human carcinogen. The American Conference of Governmental Industrial Hygienists (ACGIH) has listed respirable crystalline silica (quartz) as a suspected human carcinogen (A-2 designation).
<b>Reproductive Toxicity:</b> No end point data for material.	Based on available data, the classification criteria are not met.
<b>Lactation:</b> No end point data for material.	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity (STOT)</b>	
<b>Single Exposure:</b> No end point data for material.	Based on available data, the classification criteria are not met.
<b>Repeated Exposure:</b> No end point data for material.	Based on available data, the classification criteria are not met.

**SECTION 12 ECOLOGICAL INFORMATION**

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

The product is not classified as environmentally hazardous.

**MOBILITY**

Not available.



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#### **PERSISTENCE AND DEGRADABILITY**

##### **Biodegradation:**

Not available.

#### **BIOACCUMULATION POTENTIAL**

Not available.

#### **OTHER ADVERSE EFFECTS**

Not available.

### **SECTION 13 DISPOSAL CONSIDERATIONS**

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

#### **DISPOSAL RECOMMENDATIONS**

Place contaminated materials in appropriate containers and dispose of in a manner consistent with applicable federal, state, and local regulations. Prevent from entering drainage, sewer systems, and unintended bodies of water. It is the responsibility of the user to determine, at the time of disposal, whether product meets criteria for hazardous waste. Product uses, transformations, mixture and processes, may render the resulting material hazardous.

#### **REGULATORY DISPOSAL INFORMATION**

RCRA Information: Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability, corrosivity, reactivity or toxicity as determined by the Toxicity Characteristic Leaching Procedure (TCLP). Potential RCRA characteristics: TCLP (BENZENE)

### **SECTION 14 TRANSPORT INFORMATION**

**LAND (DOT):** Not Regulated for Land Transport

**LAND (TDG):** Not Regulated for Land Transport

**SEA (IMDG):** Not Regulated for Sea Transport according to IMDG-Code

**AIR (IATA):** Not Regulated for Air Transport

### **SECTION 15 REGULATORY INFORMATION**

**OSHA HAZARD COMMUNICATION STANDARD:** The components in this product are listed on the TSCA Inventory or are exempt.

**COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):** Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act.

**EPCRA SECTION 302:** Not regulated.

**SARA (311/312) REPORTABLE HAZARD CATEGORIES:** Not regulated.



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**SARA (313) TOXIC RELEASE INVENTORY:** Not regulated.

SECTION 16	OTHER INFORMATION
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HMIS Ratings    Health: 0  
                      Flammability: 0  
                      Reactivity: 0

NFPA Ratings    Health: 0  
                      Flammability: 0  
                      Reactivity: 0

**KEY TO THE H-CODES CONTAINED IN SECTION 3 OF THIS DOCUMENT (for information only):**

- H304: May be fatal if swallowed and enters airways; Aspiration, Cat 1
- H315: Causes skin irritation; Skin Corr/Irritation, Cat 2
- H320(2B): Causes eye irritation; Serious Eye Damage/Irr, Cat 2B
- H360(1B)(F): May damage fertility; Repro Tox, Cat 1B (Fertility)
- H400: Very toxic to aquatic life; Acute Env Tox, Cat 1
- H410: Very toxic to aquatic life with long lasting effects; Chronic Env Tox, Cat 1

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:**

Updates made in accordance with implementation of GHS requirements.

**Disclaimer**

This material Safety Data Sheet (SDS) was prepared in accordance with 29 CFR 1910.1200 by Syar Industries, Inc (Syar). Syar, and its subsidiaries, does not assume any liability arising out of product use by others. The information, recommendations, and suggestions presented in this SDS are based upon test results and data believed to be reliable. The end user of the product has the responsibility for evaluating the adequacy of the data under the conditions of use, determining the safety, toxicity and suitability of the product under these conditions, and obtaining additional or clarifying information where uncertainty exists. No guarantee expressed or implied is made as to the effects of such use, the results to be obtained, or the safety and toxicity of the product in any specific application. Furthermore, the information herein is not represented as absolutely complete, since it is not practicable to provide all the scientific and study information in the format of this document, plus additional information may be necessary under exceptional conditions of use, or because of applicable laws or government regulations.