

**1. IDENTIFICATION****1.1 Product Identifiers**

Product Name: Sand  
 Alternative names: Majority Silicon dioxide, Quartz, Crystalline silica.  
 Product Number: SA005, 1101-B02E, 35-SAX1, FV-1-45(xx), CH-2-15E, WD-2B06(xx)

**1.2 Relevant identified uses of the substance or mixture and uses advised against**  
 Identified uses: For laboratory and educational use only

**1.3 Details of the supplier of the safety data sheet**

Company: LAB-AIDS®, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA  
 Telephone: +1 800 381 8003.  
 Fax: +1 631 820 8268.

**1.4 Emergency telephone number:** Emergency number: CHEMTREC 1 800 424-9300

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****GHS classification**

Carcinogenicity, Lungs (Category 1A), H350  
 Specific Target Organ Toxicity, Repeated Exposure, Lungs (Category 1), H372

**2.2 Label elements, including precautionary statements**

Signal word: Danger  
 Hazards statements: H350 - May cause cancer, H372 - Causes damage to organs, (lungs) through prolonged or repeated exposure.  
 Precautionary statements: P264 - Wash exposed skin thoroughly after handling, P280 - Wear protective gloves, eye protection, P285 - In case of inadequate ventilation wear respiratory protection.



Pictogram:

**2.3 Hazards not otherwise classified:** None

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Substance:** Not applicable

**3.2 Mixture**

Chemical Name	Product identifier	%	GHS-US classification
Quartz ( Silicon dioxide)	CAS# 14808-60-7	95-99.9%	Carcinogenicity 1A, Lungs H350; STOT RE 1, H372

**3.3 Chemicals where a trade secret is claimed:** Any concentration shown as a range is to protect confidentiality, or is it due to batch variation.

**4. FIRST AID MEASURE****4.1 Description of the first aid measure:**

**INGESTION:** First aid is not generally required. Never give anything by mouth to unconscious person. Rinse mouth and get a conscious person drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

**INHALATION:** Remove to fresh air. Get medical attention if necessary.

**EYE CONTACT:** Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation develops.

**SKIN CONTACT:** First Aid is not required. Flush thoroughly with mild soap and water if needed. Remove contaminated clothing. Get medical attention if necessary.

**4.2 Most important symptoms and effects, both acute and delayed:** Refer to section 11.

**4.3 Indication of any immediate medical attention and special treatment needed:** Immediate medical attention is not required.

**5. FIREFIGHTING MEASURES****5.1 Extinguishing media:**

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

**5.2 Special hazard arising from the substance or mixture:** Not applicable.

**5.3 Advice for firefighters:** Not required.

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions:** Wear laboratory grade gloves, eye protection and a lab coat.

**6.2 Emergency procedures:** Restrict unprotected personnel from the area. Avoid generating airborne dust during clean-up.

**6.3 Methods and material used for containment and cleanup procedure:** Recover for use if not contaminated. Sweep up or vacuum and place in a suitable container for a proper disposal. Do not use compressed air to clean spilled sand or ground silica. Wash spill area with soap and water.

**7. HANDLING AND STORAGE**

**7.1 Precaution for safe handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Avoid breathing dust. Use with an adequate ventilation. Wash hands thoroughly after handling.

**7.2 Storage:** Store in closed container in a dry area. Avoid moisture.

**7.3 incompatibility:** Refer to section 10.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:** ACGIH: TWA: 0.025 mg/m<sup>3</sup> (respirable dust)

**8.2 Exposure controls:** Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

**Respiratory protection:** None should be needed if normal laboratory handling at room temperature.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid.

**Appearance:** Red-pink, tan, black crystals or granules.

**Odor:** No odor

**pH:** Neutral

**Vapor Pressure ( mm Hg):** Not available

**Vapor Density:** Not available

**Evaporation Rate:** Not available

**Viscosity:** N/A

**Flash point:** N/A

**Autoignition:** N/A

**Boiling point:** 2230°C (4046°F)

**Melting point:** 1710°C (3110°F)

**Freezing point:** Not available

**Decomposition temp:** Not available

**Solubility:** Not available

**Specific gravity (H<sub>2</sub>O = 1):** ≈ 2.65g/cc

**Percent volatile (%):** N/A

**Molecular formula:** SiO<sub>2</sub>

**Molecular weight:** 60.09

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Incompatible materials.

**Incompatibilities:** Powerful oxidizing agents such as fluorine, chlorine trifluoride, oxygen difluoride, hydrofluoric acid.

**Hazardous decomposition:** Silica will dissolve in hydrofluoric acid and produce the corrosive gas silicon tetrafluoride.

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute effects:** Eyes: Dust and granules may cause eye mechanical irritation. Skin: Not expected to cause irritation. Inhalation: Inhalation of the dust may cause coughing, sneezing, sore throat, nasal congestion and shortness of breath. Pre existing respiratory conditions may be affected by dust. Ingestion: Not expected to cause acute reaction.

**Chronic effects:** Prolonged inhalation of respirable crystalline silica may cause lung disease, silicosis, lung cancer

Crystalline silica is a basic component of soil, sand, granite, and many other minerals. Quartz is the most common form of crystalline silica. Cristobalite and tridymite are two other forms of crystalline silica. All three forms may become respirable size particles when workers chip, cut, drill, or grind objects that contain crystalline silica. Crystalline silica is a cancer suspect in humans from occupational sources and in manufacturing environments under prolonged exposure.

**Toxicological data**

**Acute oral toxicity ORAL LD<sub>50</sub>:** >22,500mg/kg

**Acute vapor toxicity IHL-LC<sub>50</sub>:** Not available

**DERMAL LD<sub>50</sub>:** Not available

**Carcinogenicity:** IARC concluded that crystalline silica in the form of quartz or cristobalite dust is carcinogenic to humans (Group 1)



California prop 65: This product can expose you to chemicals crystalline silica which is known to The State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## 12. ECOLOGICAL INFORMATION

Not known to have adverse consequences on environment.

## 13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

## 14. TRANSPORT INFORMATION

**UN number:** N/A

**Shipping name:** N/A

**Hazard Class:** N/A

**Packing group:** N/A

**Exceptions:** Ltd Qty. N/A

## 15. REGULATORY INFORMATION

TSCA-listed, EINECS-listed (238-878-4).

## 16. OTHER INFORMATION

**Disclaimer:**

The Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. LAB-AIDS® makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation and verification. The data should not be confused with local, state, federal regulations, or insurance mandates, and CONSTITUTE NO WARRANTY. Any use of these data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond LAB-AIDS, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).



## 1. IDENTIFICATION

### 1.1 Product Identifiers

Product Name: Gravel  
Alternative names: Stone pieces.  
Product Number: GR002, GR010, GR013, IAES-P033, SA-1P65xx, 35-GRX1, FV-1-44xx, EDCE-B015, IALS-1B02E

1.2 Relevant identified uses of the substance or mixture and uses advised against  
Identified uses: For laboratory and educational use only

### 1.3 Details of the supplier of the safety data sheet

Company: Lab Aids, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA  
Telephone: +1 800 381 8003.  
Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS classification  
Not classified

### 2.2 Label elements, including precautionary statements

Signal word: Not classified  
Hazards statements: Not classified  
Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: N/A

3.2 Mixture: Animal product

Chemical Name	Product identifier	%	GHS-US classification
Not applicable	CAS# N/A	99.9%	Not classified

3.3 Chemicals where a trade secret is claimed: None

## 4. FIRST AID MEASURE

### 4.1 Description of the first aid measure:

**INGESTION:** First aid is not required. Never give anything by mouth to unconscious person. Ask a conscious person to rinse mouth with water, and let to drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

**INHALATION:** Remove to fresh air. Get medical attention if necessary.

**EYE CONTACT:** Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation persists.

**SKIN CONTACT:** First Aid is not required. Flush thoroughly with mild soap and water if needed. Remove contaminated clothing. Get medical attention if necessary.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: None.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## 7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Store in closed container in a dry area.

7.3 Incompatibility: Refer to section 10.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:** ACGIH: Not available

**8.2 Exposure controls:** Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

**Respiratory protection:** None should be needed if normal laboratory handling at room temperature.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid.

**Appearance:** Stone pebbles of different size and shape.

**Odor:** Not available

**pH:** Not available

**Vapor Pressure ( mm Hg):** Not available

**Vapor Density:** Not available

**Evaporation Rate:** Not available

**Viscosity:** N/A

**Flash point:** N/A

**Autoignition:** N/A

**Boiling point:** Not available

**Melting point:** Not available

**Freezing point:** Not available

**Decomposition temp:** Not available

**Solubility:** Partially soluble in water

**Specific gravity (H<sub>2</sub>O = 1):** N/A

**Percent volatile (%):** Not available

**Molecular formula:** N/A

**Molecular weight:** N/A

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Not available.

**Incompatibilities:** Not available.

**Hazardous decomposition:** Not available.

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute effects:** Eye: No data available. Skin: No data available. Inhalation: No data available. Ingestion: No data available

**ORL-RAT LD<sub>50</sub>:** Not available

**IHL-RAT LD<sub>50</sub>:** Not available

**SKN-RABIT LD<sub>50</sub>:** Not available

**Carcinogenicity:**

California prop 65: Not classified

## 12. ECOLOGICAL INFORMATION

Not available.

## 13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

## 14. TRANSPORT INFORMATION

**UN number:** N/A

**Shipping name:** Not regulated

**Hazard Class:** N/A

**Packing group:** N/A

**Exceptions:** N/A

## 15. REGULATORY INFORMATION

Not available

## 16. OTHER INFORMATION

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## 1. IDENTIFICATION

### 1.1 Product Identifiers

Product Name: Potting Soil  
 Alternative names: Organic matter.  
 Product Number: TS001, 35-OMX1, CS-S213E, CS-212E, SO029, 3185-B03E, C1-1-28E, CH-2-17xx, WH-1-12xx, PR-003, 60-MGMX1

1.2 Relevant identified uses of the substance or mixture and uses advised against  
 Identified uses: For laboratory and educational use only

### 1.3 Details of the supplier of the safety data sheet

Company: Lab-Aids, Inc, 17 Colt Ct., Ronkonkoma, NY 11779, USA  
 Telephone: +1 800 381 8003.  
 Fax: +1 631 820 8268

1.4 Emergency telephone number: Emergency number: CHEMTREC 1 800 424-9300

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GHS classification  
 Not classified

### 2.2 Label elements, including precautionary statements

Signal word: Not classified  
 Hazards statements: Not classified  
 Precautionary statements: Not classified

Pictogram: Not classified

2.3 Hazards not otherwise classified: None

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance: N/A

3.2 Mixture: Animal product

Chemical Name	Product identifier	%	GHS-US classification
Not applicable	CAS# N/A	100%	Not classified

3.3 Chemicals where a trade secret is claimed: None

## 4. FIRST AID MEASURE

### 4.1 Description of the first aid measure:

**INGESTION:** First aid is not required. Never give anything by mouth to unconscious person. Ask a conscious person to rinse mouth with water, and let to drink a glass of milk or water. Do NOT induce vomiting unless directed to do so by medical personnel. Get medical attention if necessary.

**INHALATION:** Remove to fresh air. Get medical attention if necessary.

**EYE CONTACT:** Wash immediately with plenty of water, and continue washing for at least 15min., occasionally lifting upper and lower eyelids. Seek medical attention if irritation persists.

**SKIN CONTACT:** First Aid is not required. Flush thoroughly with mild soap and water if needed. Remove contaminated clothing. Get medical attention if necessary.

4.2 Most important symptoms and effects, both acute and delayed: Refer to section 11.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media:

Suitable extinguishing media: Use TriClass, dry chemical extinguisher for surrounding fires.

5.2 Special hazard arising from the substance or mixture: Not available.

5.3 Advice for firefighters: Use self-contained breathing apparatus and protective clothing.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Wear laboratory grade gloves, eye protection and a lab coat.

6.2 Emergency procedures: Restrict unprotected personnel from the area.

6.3 Methods and material used for containment and cleanup procedure: Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

## 7. HANDLING AND STORAGE

7.1 Precaution for safe handling: Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Use only under adult supervision. Use with adequate ventilation. Wash hands thoroughly after handling.

7.2 Storage: Keep container in cool, well-ventilated area. Store in closed container in a dry area.

7.3 incompatibility: Refer to section 10.



## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control parameters:** ACGIH: Not available

**8.2 Exposure controls:** Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles, chemical-resistant gloves, and chemical-resistant apron. Use ventilation to keep airborne concentrations below exposure limits.

**Respiratory protection:** None should be needed if normal laboratory handling at room temperature.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Solid.

**Appearance:** Brown organic material.

**Odor:** Not available

**pH:** Not available

**Vapor Pressure ( mm Hg):** Not available

**Vapor Density:** Not available

**Evaporation Rate:** Not available

**Viscosity:** N/A

**Flash point:** N/A

**Autoignition:** N/A

**Boiling point:** Not available

**Melting point:** Not available

**Freezing point:** Not available

**Decomposition temp:** Not available

**Solubility:** Partially soluble in water

**Specific gravity (H<sub>2</sub>O = 1):** N/A

**Percent volatile (%):** Not available

**Molecular formula:** N/A

**Molecular weight:** N/A

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable

**Conditions to Avoid:** Not available.

**Incompatibilities:** Not available.

**Hazardous decomposition:** Not available.

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Acute effects:** Eye: Not expected to cause any acute effects. Skin: Not expected to cause any acute effects. Inhalation: Forced inhalation may lead to the respiratory aspiration. Ingestion: There might be a hazard associated with digestion of organic material due to presence of bacterial environment.

ORL-RAT LD<sub>50</sub>: Not available

IHL-RAT LD<sub>50</sub>: Not available

SKN-RABIT LD<sub>50</sub>: Not available

**Carcinogenicity:**

California prop 65: Not classified

## 12. ECOLOGICAL INFORMATION

Not available.

## 13. DISPOSAL CONSIDERATION

Disposal of in accordance with all local, state, and federal regulations, or contact with a licensed chemical disposal agency.

## 14. TRANSPORT INFORMATION

**UN number:** N/A

**Shipping name:** Not regulated

**Hazard Class:** N/A

**Packing group:** N/A

**Exceptions:** N/A

## 15. REGULATORY INFORMATION

Not available

## 16. OTHER INFORMATION

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