

Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Silica Sand**
Formula: SiO₂
CAS No.: 14808-60-7
Recommended Use: Foundry and proppant sand

Company Identification: **A.F. Gelhar Co., Inc.**
N2402 County Road A
Fairwater, Wisconsin 53931
920-398-3566 (7:30 am - 5 pm central time)

2. HAZARDS IDENTIFICATION

GHS Classification

Carc. 1A H350
STOT SE 3 H335
STOT RE 1 H372

GHS Labeling

Symbol:



GHS07



GHS08

Signal Word: **DANGER**

Hazard Statements:

H320 Causes eye irritation.
H335 May cause respiratory irritation
H350 May cause cancer by inhalation.
H372 Causes damage to organs (lungs/respiratory system) through prolonged or repeated exposure by inhalation.

Precautionary Statements:

P202 Do not handle until the safety information presented in this SDS has been read and understood.
P260 DO NOT BREATHE DUST.
P270 Do not eat, drink or smoke while handling this product.
P280 Wear eye protection, protective clothing, protective gloves
P264 Wash skin thoroughly after handling.
P304/P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308/P313 IF exposed or concerned: Get medical advice/attention
P312 Call POISON CENTER/doctor if you feel unwell
P403/P233 Store in a well ventilated place. Keep container tightly closed
P501 Dispose of contents/containers according to local, regional, national, and international regulations
Avoid creating dust when handling, using or storing. Use with adequate ventilation to keep exposure below recommended exposure limits. Wear eye protection and respiratory protection following this SDS, NIOSH guidelines and other applicable regulations.

Hazards Not Otherwise Classified:

No additional information available

OSHA Hazards

No additional information available

Target Organs

Lungs

Potential Immediate Health Effects

No additional information available

3. COMPOSITION

Substances:

Names	Product Identifier	Composition %	GHS-US classification
Silica Quartz	CAS# 14808-60-7	96 - 99.6	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

Mixtures:

Not applicable

4. FIRST AID MEASURES**Description of first aid measures:**

First-aid measures general:

If medical advice is needed, have product container or label at hand.

First-aid measures after inhalation:

If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists

First-aid measures after skin contact:

Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

First-aid measures after eye contact:

Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and

First-aid measures after ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Symptoms & side effects:

Symptoms/injuries:

Repeated or prolonged inhalation may damage lungs.

Symptoms/injuries after inhalation:

May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing.

Symptoms/injuries after skin contact:

Prolonged contact with large amounts of dust may cause mechanical irritation. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/injuries after eye contact:

Redness, pain.

Symptoms/injuries after ingestion:

Abdominal pain.

Chronic symptoms:

Respiratory difficulties. May cause cancer.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media:**

Material is not flammable

Unsuitable Extinguishing Media:

Material is not flammable

Special Protective Equipment for Fire-Fighters:

Material is not flammable

6. ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

General measures: Do not breathe dust. Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up.

Protective equipment: Wear suitable protective clothing, gloves and eye/face protection. Use recommended respiratory protection.

Emergency procedures: Collect as solid.

Environmental Precautions:

No additional information is available.

Methods and Materials for Containment and Clean-up

Methods for cleaning up: Avoid generation of dust during clean-up of spills. Recover the product by vacuuming, shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean-up.

7. HANDLING AND STORAGE**Precautions for Safe Handling:**

Additional hazards when processed:

Do not breathe dust.

Precautions for safe handling:

Avoid creating or spreading dust

Hygiene measures:

Handle in accordance with good industrial hygiene and safety procedures. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Do not eat, drink or smoke in areas where product is used.

Recommended Conditions for Storage

Storage conditions:

Store in a dry, cool place. Keep container tightly closed.

Incompatible materials:

In finely divided state: reacts with (strong) oxidizers such as: hydrofluoric acid, chlorine trifluoride, oxygen difluoride, fluorine.

Special rules on packaging:

Keep container closed when no in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits:

Chemical	CAS No.	ACGIH TWA (mg/m ³)	US IDHL (mg/m ³)	USA NIOSH REL TWA (mg/m ³)	USA OSHA PEL TWA (mg/m ³)
Quartz	14808-60-7	0.025	50	0.05	(30)/(%SiO ₂ + 2) = mg/m ³ total dust (10)/(%SiO ₂ + 2) = mg/m ³ respirable

Engineering controls:

Ensure adequate ventilation, especially in confined areas. Avoid dust production.

Personal protective equipment:

In case of dust production: dustproof clothing. In case of dust production: protective goggles. Insufficient ventilation: wear respiratory protection. High dust production: self-contained breathing apparatus.



Hand Protection:

Impermeable protective gloves.

Skin and Body Protection:

Handle in accordance with good industrial hygiene and safety practice. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Wear suitable protective clothing. Wash contaminated clothing before reuse.

Eye protection:

Protective goggles.

Respiratory protection:

Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Consumer exposure controls:

Do not breathe dust. Wear recommended personal protective equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Solid
Odor:	Odorless
Odor threshold:	No data available
pH:	No data available
Melting Point:	No data available
Freezing Point:	No data available
Evaporation Rate:	No data available
Flammability:	No data available
Explosion Limits:	No data available
Vapor Pressure:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Solubility in Water:	No data available
Partition coefficient:	No data available
Auto-ignition temp.:	No data available
Decomposition temp.:	No data available
Viscosity:	No data available
Other:	No data available

10. STABILITY AND REACTIVITY

Chemical stability:

Stable under normal temperature and pressure:

Conditions to Avoid:

None known.

Hazardous Decomposition Products:

Quartz (silica) will dissolve in hydrofluoric acid producing corrosive gas, silicon tetrafluoride.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity:**

Not classified.

Skin corrosion/irritation:

Not classified.

Serious eye damage/irritation:

Not classified.

Respiratory of skin sensitization:

Not classified.

Germ cell mutagenicity:

Not classified.

Carcinogenicity:

May cause cancer (inhalation).

Quartz Cas 14808-60-7

IRAC group:

National Toxicity Program (NTP) Status:

Group 1

Known Human Carcinogen

Reproductive toxicity:

Not classified.

Specific target organ toxicity (single exposure):

May cause respiratory irritation.

Specific target organ toxicity (repeated exposure):

Causes damage to organs (lung/respiratory) through prolonged or repeated exposure (inhalation).

Additional information:

Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Aspiration Hazard:

Not classified

12. ECOLOGICAL INFORMATION**Toxicity:**

No additional information available.

Persistence and Degradability:

Not readily biodegradable.

Bioaccumulative Potential:

Not expected to bioaccumulate.

Mobility:

No additional information available.

PBT and vPvB assessment:

No additional information available.

Other Adverse Effects

No additional information available.

13. DISPOSAL CONSIDERATIONS**Regional legislation (waste):**

Disposal must nbe done in accordance to local, state, and federal regulations

Waste Disposal recommendations:

Not a hazardous waste, per RCRA.

14. TRANSPORT INFORMATION**DOT (US):**

Not applicable

IMDG:

Not applicable

IATA:

Not applicable

15. REGULATORY INFORMATION**SARA 302 Compounds**

No SARA 302 chemicals present

SARA 313 Compounds

No SARA 313 chemicals present

SARA 311/312 Hazards

Immediate (acute) health hazard.

Delayed (chronic) health hazard.

TSCA listed substances:

Quartz CAS #14808-60-7

National regulations:

Quartz CAS #14808-60-7

Listed on IARC (International Agency for Research on Cancer)

Listed as carcinogen on NTP (National Toxicology Program)

US State Regulations

U.S. - California - Proposition 65 – Carcinogen

WARNING! This product contains Quartz, a substance known to the State of California to cause cancer.

U.S. - Hawaii - Occupational Exposure Limits - TWAs

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations

U.S. - Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)

U.S. - Idaho - Occupational Exposure Limits - Mineral Dusts

U.S. - Illinois - Toxic Air Contaminant Carcinogens Permissible Exposure Limits - TWAs

U.S. - Maine - Chemicals of High Concern U.S. - Massachusetts - Right To Know List

U.S. - Michigan - Occupational Exposure Limits - TWAs

U.S. - Minnesota - Chemicals of High Concern

U.S. - Minnesota - Hazardous Substance List

U.S. - Minnesota - Permissible Exposure Limits - TWAs

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour

U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - New Jersey - Special Health Hazards Substances List

U.S. - Oregon - Permissible Exposure Limits - Mineral Dusts

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - Tennessee - Occupational Exposure Limits - TWAs

U.S. - Texas - Effects Screening Levels - Long Term

U.S. - Texas - Effects Screening Levels - Short Term Washington -

U.S. - Vermont - Permissible Exposure Limits - TWAs

U.S. - Washington - Permissible Exposure Limits - STELs U.S. - STELs

U.S. - Washington - Permissible Exposure Limits - STELs U.S. - TWAs

16. OTHER INFORMATION

HMIS Classification:

Health Hazard:	2	HEALTH	2
Chronic Health Hazard:	-	FIRE	0
Flammability:	0	REACTIVITY	0
Physical Hazards:	0	PPE	E
Personal Protection:	E		

(Safety glasses, gloves, and dust respirator)

NFPA Rating:

Health Hazard:	2	
Fire:	0	
Reactivity Hazard:	0	
Special Hazard:	None	

Full text of H- phrases:

Carc. 1A	Carcinogenicity Category 1A
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

No data is available, per 29 CFR 1910.1200(d)(b); health hazards are based upon all of the components which make up the mixture.

The above information is believed to be correct, but is not purported to be all-inclusive and should only be used as a guide. Because data, safety standards, and regulatory inputs are subject to change, no warranty, guarantee, or representation with respect to the completeness or continuing accuracy of the information contained in this document is made. The user of this product must decide what safety measures are necessary to safely use this product; the conditions of handling and use, or misuse, are beyond the control of A.F. Gelhar Co., Inc.. The user is also responsible to determine its environmental regulatory compliance obligations under any applicable federal or state laws.