

# Safety Data Sheet All Types of Sand

SDS Revision Date:

12/10/2014



## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product Identity**

All Types of Sand

**Alternate Names**

#0 Sand, #1/4 Sand, #1/2 Sand, #1 Sand, #2 Sand, #3 Sand, All Types of Sand, FP Gravel, # 100 Sand, # 80 Sand, # 70 Sand, # 60 Sand, # 50 Sand, #40 Sand, FS4098, FF4020, BS5005, 710, C-109, C-190, Silicon Dioxide, Silicon Dioxide, Traction Grit, Filter Sand, Silica Flours, Quartz, Flint, Gravel, White Sand, Child Health Sand, All purpose Sand, Concrete Sand, Mason Sand

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Intended use**

See Technical Data Sheet.

**Application Method**

See Technical Data Sheet.

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

**Company Name**

Thermco Products, Inc.  
10 Millpond Drive,  
Unit #10  
Lafayette, NJ 07848

**Emergency**

**Customer Service: Thermco Products, Inc.**

973.300.9100

## 2. Hazard identification of the product

### 2.1. Classification of the substance or mixture

Acute Tox. 4;H332

Harmful if inhaled.

Carc. 1A;H350

May cause cancer.

STOT RE 2;H373

May cause damage to organs through prolonged or repeated exposure. Specific Target Organs: (Not Available)

# Safety Data Sheet All Types of Sand

SDS Revision Date:

12/10/2014



## 2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



### Warning

H332 Harmful if inhaled.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

#### [Prevention]:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P271 Use only outdoors or in a well-ventilated area.

P281 Use personal protective equipment as required.

#### [Response]:

P304+312 IF INHALED: Call a POISON CENTER or doctor / physician if you feel unwell.

P308+313 IF exposed or concerned: Get medical advice / attention.

P314 Get Medical advice / attention if you feel unwell.

P340 Remove victim to fresh air and keep at rest in a position comfortable for breathing.

#### [Storage]:

P405 Store locked up

#### [Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



### 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Crystalline Silica - Quartz CAS Number: 0014808-60-7	75 - 100	Acute Tox. 4;H332 STOT RE 2;H373 Carc. 1A;H350	[1][2]

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

\*The full texts of the phrases are shown in Section 16.

### 4. First aid measures

#### 4.1. Description of first aid measures

##### General

In all cases of doubt, or when symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

##### Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. If breathing is difficult, have qualified medical personnel administer oxygen.

##### Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

##### Skin

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

##### Ingestion

If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

#### 4.2. Most important symptoms and effects, both acute and delayed

##### Overview

Inhalation: Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects:

Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling and sometimes fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.

Cancer Status: The international Agency for Research on Cancer has determined that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1- carcinogenic to humans). Refer to IARC Monograph 68, Silica. Some Silicates and Organic Fibres (published in June 1997) in conjunction with the

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



use of these materials. The National Toxicology Program classifies respirable crystalline silica as "reasonably anticipated to be a carcinogen".

Other Data with Possible Relevance to Human health:

There is some evidence that breathing respirable crystalline silica or the silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease.

Eye contact: Contact may cause mechanical irritation and possible injury.

Medical conditions aggravated by exposure: individuals with respiratory disease, including but not limited to, asthma and bronchitis, or subject to eye irritation should not be exposed to respirable quartz dust.

See section 2 for further details.

### Inhalation

Harmful if inhaled.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

This product will not burn but is compatible with all extinguishing media. Use any media that is appropriate for the surrounding fire.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas - silicon tetrafluoride. Avoid breathing dust / fume / gas / mist / vapors / spray.

### 5.3. Advice for fire-fighters

None

ERG Guide No. ----

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

If uncontaminated, collect using dustless method (HEPA vacuum or wet method) and place in appropriate container for use. If contaminated: a) use appropriate method for the nature of contamination, b) consider possible toxic or fire hazards associated with the contaminating substances. Collect for disposal. If uncontaminated, dispose as an inert,

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



non-metallic mineral. If contaminated, dispose in accordance with all applicable local, state/provincial and federal regulations.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

See section 2 for further details. - [Prevention]:

#### 7.2. Conditions for safe storage, including any incompatibilities

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fires.

Do not breathe dust. Do not rely on your sight to determine if dust is in the air. Silica may be in the air without a visible dust cloud. Use normal precautions against bag breakage or spills of bulk material. ANSI/AIHA Z9.4:1997 recommends that silica sand be prohibited as an abrasive blasting agent for use in fixed location abrasive-blast enclosures. Use good housekeeping in storage and use areas to prevent accumulation of dust in work area.

Use adequate ventilation and dust collection. Maintain and use proper, clean respiratory equipment. Launder clothing that has become dusty. Empty containers (bags, bulk containers, storage tanks, etc.) Retain silica residue and must be handled in accordance with the provisions of this material Safety Data sheet. WARN AND TRAIN employees in accordance with state and federal regulation.

WARN YOUR EMPLOYEES (AND YOUR CUSTOMERS - USERS IN CASE OF RESALE) BY POSTING AND OTHER MEANS OF THE HAZARDS AND OSHA PRECAUTIONS TO BE USED. PROVIDE TRAINING FOR YOUR EMPLOYEES ABOUT OSHA PRECAUTIONS.

See section 2 for further details. - [Storage]:

#### 7.3. Specific end use(s)

No data available.

### 8. Exposure controls and personal protection

#### 8.1. Control parameters

##### Exposure

CAS No.	Ingredient	Source	Value
0014808-60-7	Crystalline Silica - Quartz	OSHA	No Established Limit
		ACGIH	TWA: 0.025 mg/m <sup>3</sup> A1, 1
		NIOSH	0.05 mg/m <sup>3</sup> TWA (respirable)
		Supplier	No Established Limit

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



### Carcinogen Data

CAS No.	Ingredient	Source	Value
0014808-60-7	Crystalline Silica - Quartz	OSHA	Select Carcinogen: No
		NTP	Known: Yes; Suspected: No
		IARC	Group 1: Yes; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

### 8.2. Exposure controls

#### Respiratory

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators.

#### Eyes

Protective safety glasses recommended.

#### Skin

Protective gloves recommended.

#### Engineering Controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.

#### Other Work Practices

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

<b>Appearance</b>	White or Tan sand, granular, crushed or ground Solid
<b>Odor</b>	None
<b>Odor threshold</b>	Not Measured
<b>pH</b>	NA
<b>Melting point / freezing point</b>	2930 F/ 1610 C
<b>Initial boiling point and boiling range</b>	4046 F/ 2230 C
<b>Flash Point</b>	(Method Used) Fully oxidized, will not burn.
<b>Evaporation rate (Ether = 1)</b>	NA
<b>Flammability (solid, gas)</b>	Not Applicable
<b>Upper/lower flammability or explosive limits</b>	<b>Lower Explosive Limit: NA</b> <b>Upper Explosive Limit: NA</b>
<b>Vapor pressure (Pa)</b>	NA
<b>Vapor Density</b>	NA
<b>Specific Gravity</b>	(H2O = 1) 2.65
<b>Solubility in Water</b>	Negligible
<b>Partition coefficient n-octanol/water (Log Kow)</b>	Not Measured

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



Auto-ignition temperature NA  
Decomposition temperature NA  
Viscosity (cSt) NA  
VOC % NA

### 9.2. Other information

No other relevant information.

## 10. Stability and reactivity

### 10.1. Reactivity

Hazardous Polymerization will not occur.

### 10.2. Chemical stability

Stable under normal circumstances.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, may cause fires.

### 10.6. Hazardous decomposition products

Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas - silicon tetrafluoride.

## 11. Toxicological information

### Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr	Inhalation Dust/Mist LD50, mg/L/4hr	Inhalation Gas LD50, ppm
Crystalline Silica - Quartz - (14808-60-7)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



Acute toxicity (inhalation)	4	Harmful if inhaled.
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	2	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	---	Not Applicable

## 12. Ecological information

### 12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

### Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Crystalline Silica - Quartz - (14808-60-7)	Not Available	Not Available	Not Available

### 12.2. Persistence and degradability

There is no data available on the preparation itself.

### 12.3. Bioaccumulative potential

Not Measured

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

### 12.6. Other adverse effects

No data available.



# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



### 13. Disposal considerations

#### 13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

### 14. Transport information

	<b>DOT (Domestic Surface Transportation)</b>	<b>IMO / IMDG (Ocean Transportation)</b>	<b>ICAO/IATA</b>
<b>14.1. UN number</b>	Not Applicable	Not Regulated	Not Regulated
<b>14.2. UN proper shipping name</b>	Not Regulated	Not Regulated	Not Regulated
<b>14.3. Transport hazard class(es)</b>	<b>DOT Hazard Class:</b> Not Applicable <b>DOT Label:</b> ---	<b>IMDG:</b> Not Applicable <b>Sub Class:</b> Not Applicable	<b>Air Class:</b> Not Applicable
<b>14.4. Packing group</b>	Not Applicable	Not Applicable	Not Applicable
<b>14.5. Environmental hazards</b>			
<b>IMDG</b>	Marine Pollutant: No		
<b>14.6. Special precautions for user</b>	No further information		

### 15. Regulatory information

<b>Regulatory Overview</b>	The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.
<b>Toxic Substance Control Act ( TSCA)</b>	All components of this material are either listed or exempt from listing on the TSCA Inventory.
<b>WHMIS Classification</b>	D2B
<b>US EPA Tier II Hazards</b>	<b>Fire:</b> No <b>Sudden Release of Pressure:</b> No <b>Reactive:</b> No <b>Immediate (Acute):</b> Yes <b>Delayed (Chronic):</b> Yes
<b>EPCRA 311/312 Chemicals and RQs:</b> (No Product Ingredients Listed)	
<b>EPCRA 302 Extremely Hazardous :</b> (No Product Ingredients Listed)	

# Safety Data Sheet

## All Types of Sand

SDS Revision Date:

12/10/2014



**EPCRA 313 Toxic Chemicals:**

(No Product Ingredients Listed)

**Proposition 65 - Carcinogens (>0.0%):**

Crystalline Silica - Quartz

**Proposition 65 - Developmental Toxins (>0.0%):**

(No Product Ingredients Listed)

**Proposition 65 - Female Repro Toxins (>0.0%):**

(No Product Ingredients Listed)

**Proposition 65 - Male Repro Toxins (>0.0%):**

(No Product Ingredients Listed)

**N.J. RTK Substances (>1%):**

Crystalline Silica - Quartz

**Penn RTK Substances (>1%):**

Crystalline Silica - Quartz

### 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H332 Harmful if inhaled.

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

**This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.**

Disclaimer: This information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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