

# SAFETY DATA SHEET

### 1. Identification

### Product identifier: QUARTZ

### Other means of identification Product No.: 3382, 7062

### Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200
	Center Valley, PA 18034
Telephone:	
	Customer Service: 855-282-6867
Fax:	
Contact Person:	Environmental Health & Safety
e-mail:	info@avantormaterials.com

#### **Emergency telephone number:**

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

### 2. Hazard(s) identification

### Hazard classification

#### **Health hazards**

Carcinogenicity Specific target organ toxicity repeated exposure Category 1A Category 1

### Label elements

Hazard symbol:



Signal word:

Danger

Hazard statement:

May cause cancer. Causes damage to organs through prolonged or repeated exposure.

### **Precautionary statement**

**Prevention:** 

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.

	Version: 1.0 Revision date: 09-09-2014
Response:	IF exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.
Storage:	Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not	None.

### result in GHS classification:

### 3. Composition/information on ingredients

### Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
QUARTZ		14808-60-7	90 - 100%
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

### 4. First-aid measures

General information:	Get medical advice/attention if you feel unwell. Show this safety data sh to the doctor in attendance.	eet
Ingestion:	Rinse mouth thoroughly. Call a POISON CENTER or doctor/physician if you feel unwell.	
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.	
Skin contact:	Wash skin thoroughly with soap and water. Get medical attention if irrita persists after washing. Wash contaminated clothing before reuse.	tion
Eye contact:	Flush thoroughly with water. If irritation occurs, get medical assistance.	
Most important symptoms/effects, acute and delayed		
Symptoms:	May cause irritation to skin, eyes, and respiratory tract.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically. Symptoms may be delayed.	
Treatment: 5. Fire-fighting measures	Treat symptomatically. Symptoms may be delayed.	
	Treat symptomatically. Symptoms may be delayed. In case of fire and/or explosion do not breathe fumes.	
5. Fire-fighting measures	In case of fire and/or explosion do not breathe fumes.	
5. Fire-fighting measures General fire hazards:	In case of fire and/or explosion do not breathe fumes.	
<ul> <li>5. Fire-fighting measures</li> <li>General fire hazards:</li> <li>Suitable (and unsuitable) extinguishing</li> </ul>	In case of fire and/or explosion do not breathe fumes.	
<ul> <li>5. Fire-fighting measures</li> <li>General fire hazards:</li> <li>Suitable (and unsuitable) extinguisable</li> <li>Suitable extinguishing media:</li> <li>Unsuitable extinguishing</li> </ul>	In case of fire and/or explosion do not breathe fumes. <b>Iishing media</b> Use fire-extinguishing media appropriate for surrounding materials.	



### Special protective equipment and precautions for firefighters

Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.
Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling:	Use personal protective equipment as required. Avoid contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.
Conditions for safe storage, including any incompatibilities:	Keep containers tightly closed. Store in cool, dry place. Store in a well- ventilated place. Store locked up.

### 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Chemical identity	Туре	Exposure Limit values	Source
QUARTZ - Respirable fraction.	TWA	0.025 mg/m3	US. ACGIH Threshold Limit Values (2011)
QUARTZ - Respirable dust.	REL	0.05 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
QUARTZ - Respirable.	TWA	2.4 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
	TWA	0.1 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)
QUARTZ - Total dust.	TWA	0.3 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)

## Appropriate engineering controls

No data available.



### Individual protection measures, such as personal protective equipment

General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Eye/face protection:	Use tight fitting goggles if dust is generated.
Skin protection Hand protection:	Wear protective gloves.
Other:	Wear suitable protective clothing.
Respiratory protection:	In case of inadequate ventilation use suitable respirator.
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. Provide eyewash station and safety shower.

### 9. Physical and chemical properties

### Appearance

Physical state:	Solid
Form:	Granules
Color:	Off-white
Odor:	Odorless
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	1,710 °C
Initial boiling point and boiling range:	2,230 °C
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	Noncombustible Solid
Upper/lower limit on flammability or explosi	ve limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	Estimated < 0.01 kPa (25 °C)
Vapor density:	No data available.
Relative density:	2.65 (20 °C)
Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	60.08 g/mol (O2Si)



### 10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Hazardous polymerization does not occur.
Conditions to avoid:	Excessive heat. Contact with incompatible materials.
Incompatible materials:	Alkalies. Strong oxidizing agents. Fluorine.
Hazardous decomposition products:	None known.

### 11. Toxicological information

Information on likely routes of e Ingestion:	<b>xposure</b> May be harmful if swallowed.
Inhalation:	May be harmful if inhaled.
Skin contact:	May cause irritation.
Eye contact:	May cause irritation.
Information on toxicological effe	ects
Acute toxicity (list all possible	e routes of exposure)
Oral Product:	No data available.
Dermal Product:	No data available.
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin corrosion/irritation Product:	May cause skin irritation.
Serious eye damage/eye irritatio Product:	on May irritate eyes.
Respiratory or skin sensitizatio Product:	n Not a skin sensitizer.
Carcinogenicity Product:	May cause cancer.



### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

QUARTZ Overall evaluation: 1. Carcinogenic to humans.

US. National Toxicology QUARTZ	Program (NTP) Report on Carcinogens: Known To Be Human Carcinogen.	
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		
Germ cell mutagenicity		
In vitro Product:	No mutagenic components identified	
In vivo Product:	No mutagenic components identified	
Reproductive toxicity Product:	No components toxic to reproduction	
Specific target organ toxicity - Product:	single exposure No data available.	
Specific target organ toxicity - Product:	repeated exposure Lung	
Aspiration hazard Product:	Not classified	
Other effects:	None known.	

### 12. Ecological information

### **Ecotoxicity:**

Acute hazards to the aquatic environment:						
Fish Product:	No data available.					
Aquatic invertebrates Product:	No data available.					
Chronic hazards to the aquatic environment:						
Fish Product:	No data available.					
Aquatic invertebrates Product:	No data available.					
Toxicity to Aquatic Plants Product:	No data available.					
Persistence and degradability						
Biodegradation Product:	There are no data on the degradability of this product.					
BOD/COD ratio Product: SDS_US - SDS00000984	No data available.					



Bioaccumulative potential Bioconcentration factor (							
Product:	No data available on bioaccumulation.						
Partition coefficient n-oc	tanol / water (log Kow)						
Product:	No data available.						
Mobility in soil:	No data available.						
Other adverse effects:	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.						
13. Disposal considerations	6						
Disposal instructions:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.						
Contaminated packaging:	Since emptied containers retain product residue, follow label warnings even after container is emptied.						

### 14. Transport information

### DOT

Not regulated.

### IMDG

Not regulated.

### IATA

Not regulated.

### 15. Regulatory information

### **US federal regulations**

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

### Superfund amendments and reauthorization act of 1986 (SARA)

#### Hazard categories

Х	Acute (Immediate)	Х	Chronic (Delayed)		Fire		Reactive		Pressure Generating
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### SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

#### SARA 304 Emergency release notification

None present or none present in regulated quantities.



### SARA 311/312 Hazardous chemical

Chemical identity Threshold Planning Quantity

QUARTZ500 lbsSARA 313 (TRI reporting)<br/>None present or none present in regulated quantities.Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)<br/>None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

### **US state regulations**

### **US. California Proposition 65**

QUARTZ Carcinogenic.

US. New Jersey Worker and Community Right-to-Know Act QUARTZ Listed

US. Massachusetts RTK - Substance List QUARTZ Listed

US. Pennsylvania RTK - Hazardous Substances QUARTZ Listed

### US. Rhode Island RTK

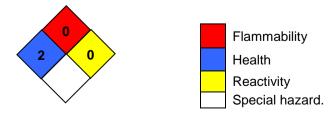
No ingredient regulated by RI Right-to-Know Law present.

### **Inventory Status:**

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not in compliance with the inventory On or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory.

### 16.Other information, including date of preparation or last revision

### NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe



Revision date:	No data available.			
Version #:	1.0			
Further information:	No data available.			
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