

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name
Product Name / Trade Name
CAS No.

Mixture
RT-Sand
Mixture

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)
Uses Advised Against

Industrial Flooring Filler
None

Details of the supplier of the safety data sheet

Company Identification

Res-Tek, Inc.
110 Riverside Drive
Cartersville, Georgia 30120
United States of America
1-888-737-8351 / 1-770-427-4034

Telephone

Emergency telephone number

CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200)

STOT RE 1; Carc. 1A

Label elements

Hazard Symbol(s)



Signal Word(s)

DANGER

Hazard Statement(s)

May cause cancer.

Causes damage to organs through prolonged or repeated exposure: Lungs

Precautionary Statement(s)

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.

In case of inadequate ventilation wear respiratory protection.

Wash hands and exposed skin after use.

Other hazards

Do not eat, drink or smoke when using this product.

Particles may cause eye irritation by mechanical action.

Particles may cause skin irritation by mechanical action.

Additional Information

Control dust formation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Crystalline silica (quartz)	90 - 100	14808-60-7	Carc. 1A; H350 STOT RE 1; H372

For full text of H phrases see section 16.

Additional Information - This product contains less than 1% of quartz (fine fraction), which is classified as STOT RE1.

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Keep patient at rest and give oxygen if breathing difficult. If symptoms continue, get medical attention. Get medical advice/attention if you feel unwell.
Skin Contact	Gently wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation develops and persists, get medical attention.
Ingestion	Not normally required. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
Most important symptoms and effects, both acute and delayed	None known
Indication of any immediate medical attention and special treatment needed	None known

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None anticipated.

Special hazards arising from the substance or mixture

None known

Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid skin contact. Do not get in eyes. Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust.

Environmental precautions

Do not allow to enter drains, sewers or watercourses.

Methods and material for containment and cleaning up

Sweep spilled substances into containers. Moisten first to prevent dusting. Transfer to a container for disposal or recovery. Wash the spillage area with water. Do not allow to enter drains, sewers or watercourses.

Reference to other sections

None

Additional Information

Inhalable size dust particles may be released under certain conditions of handling. This dust may contain crystalline silica dust which: Causes damage to organs: Lungs (silicosis) and May cause cancer: Lungs

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid skin contact. Do not get in eyes. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe dust. Do not use in areas without adequate ventilation.

Conditions for safe storage, including any incompatibilities

- Storage temperature
- Incompatible materials

Ambient temperatures.
None known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Crystalline Silica (respirable particulate)	14808-60-7	<u>0.050 mg/m³</u> (Respirable)	0.025 mg/m ³ (Respirable)	-----	-----	See below

^Suspected Human Carcinogen; *Refer to OSHA 29 CFR 1910.1000 & 29 CFR 1926.55; 8hr TWA = 8 hour time-weighted average; STEL = Short Term Exposure Limit

Exposure controls

Appropriate engineering controls

Ventilation: Use local exhaust as required to maintain exposures as far as possible below applicable occupational exposure limits. See also ACGIH "Industrial Ventilation - A Manual for Recommended Practice" (current edition). Control of exposure to dust must be accomplished as far as feasible by accepted engineering control measures (for example, enclosure or confinement of the operation, general or local exhaust ventilation and substitution of less toxic materials).

Personal protection equipment

Eye/face protection



The following to be used as necessary: Safety Glasses

Skin protection (Hand protection/ Other)



The following to be used as necessary: Leather or thick textile gloves. Use protective clothing suitable for the work environment. Dusty clothing should be laundered before reuse.

Respiratory protection



Inhalable size dust particles may be released under certain conditions of handling. Respiratory protection may be needed if occupational exposure limits are exceeded. Air-purifying respirator with particulate filter may be sufficient. Check with protective equipment manufacturer's data.

Thermal hazards

Not normally required.

Environmental Exposure Controls

Not normally required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid
Color	Gray / White.
Odor	None
Odor Threshold (ppm)	Not applicable.
pH (Value)	5 – 8 (400 g/L in water at 20°C).
Melting Point (°C) / Freezing Point (°C)	1,710 (3,110 °F)
Boiling point/boiling range (°C):	2,230 (4,046 °F)
Flash Point (°C)	Non-combustible
Evaporation Rate	Not available.
Flammability (solid, gas)	Non-combustible
Explosive Limit Ranges	Non-combustible
Vapor pressure (Pascal)	Not applicable.
Vapor Density (Air=1)	Not applicable.
Density (g/ml)	2.65 (22.12 lbs./gallon)
Specific Gravity	2.65
Solubility (Water)	Negligible.
Solubility (Other)	Not known
Partition Coefficient (n-Octanol/water)	Not applicable.
Auto Ignition Point (°C)	Non-combustible
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	Not applicable.
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Other information	Not available.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable to 150°C (302°F).
Possibility of hazardous reactions	None known
Conditions to avoid	Heating.
Incompatible materials	Powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, etc.
Hazardous decomposition product(s)	Silica will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Crystalline Silica (CAS# 614808-60-7):

Acute toxicity	LD50 (Oral): >22,500 mg/kg bw (rat) LD50 (dermal): >2000 mg/kg bw LC50 (inhalation, fume): >94.4 mg/m ³ - Causes damage to organs: Lungs (silicosis)
Irritation/Corrosivity	Not to be expected. Contact may cause mechanical irritation and possible injury.

Sensitization Not to be expected
Repeated dose toxicity Causes damage to organs through prolonged or repeated exposure: Lungs (silicosis)
Carcinogenicity May cause cancer. Lungs

NTP	IARC	ACGIH	OSHA
Yes.	Group 1	A2	Yes.

Group 1 = Carcinogenic to humans. A2 = Suspected Human Carcinogen. When present as respirable particles

Mutagenicity Not to be expected.
Reproductive toxicity Not to be expected.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity (Proprietary Wetting Agent)

Short term LC50 (Carp): >10,000 mg/L/72 Hr
LL50 (Fish): 0.8 mg/L/48 hr
LL50 (Aquatic Invertebrates): 202 µg/L/48 hr
Long Term No data

Persistence and degradability

Not applicable.

Bioaccumulative potential

Not applicable.

Mobility in soil

The product has low mobility in soil.

Results of PBT and vPvB assessment

Not classified as PBT or vPvB.

Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with local, state or national legislation.
Consult an accredited waste disposal contractor or the local authority for advice.

Additional Information

None known.

SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number			
Proper Shipping Name			
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			

Not classified as dangerous for transport.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
None	----	----	----

SARA 311/312 - Hazard Categories: None

☐ Fire ☐ Sudden Release ☐ Reactivity ☐ Immediate (acute) ☒ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
None	-----	-----

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None	-----	-----	-----

Proposition 65 (California):

Chemical Name	CAS No.	Typical %wt.	Hazards
Crystalline Silica	14808-60-7	90-100	Cancer

 **WARNING:** This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1 - 16.

Date of preparation: March 28, 2016

Hazard Statement(s) Listed in: SECTION 3

H350: May cause cancer.

H372: Causes damage to organs through prolonged or repeated exposure.

Additional Information: None.

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