

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-05 Polymer Concrete Powder
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; Skin Sens. 1

Label elements

Hazard Symbol(s)



DANGER

Signal Word(s)

Hazard Statement(s)

May cause cancer.

Causes damage to organs through prolonged or repeated exposure: Lungs

May cause an allergic skin reaction.

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.

Wash hands and exposed skin after use.

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

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves

Contaminated work clothing should not be allowed out of the workplace.

Other hazards

Particles may cause eye irritation by mechanical action. Toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

Additional Information

Control dust formation.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Composition/information on ingredients	%W/W	CAS No.	Hazard Statement(s)
Crystalline silica	90 - 100	14808-60-7	Carc. 1A; H350 STOT RE 1; H372
Dibenzoyl peroxide	0.4 - 1.0	94-36-0	Org. Perox. B; H241 Eye Irrit. 2B; H320 Skin Sens. 1; H317 Aquatic Acute 1; H400
Proprietary Wetting Agent	< 3	Proprietary	Aquatic Acute 1; H400 Aquatic Chronic 1; H410

For full text of H phrases see section 16.

Additional Information - None

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
- Unsuitable Extinguishing Media

Non-combustible. As appropriate for surrounding fire.
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	Ambient temperatures.
-Incompatible materials	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	$\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$	0.025 mg/m^3 ^	-----	-----	See below
Aluminum Hydroxide	21645-51-2	10 mg/ m ³	1.0 mg/m ³	----	-----	-----
Dibenzoyl peroxide	94-36-0	5 mg/m ³	5 mg/m ³	-----	-----	-----

^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 Use only outdoors or in a well-ventilated area. Control dust formation.

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.

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, powder and granules
Color.	White to Beige
Odor	None
Odor Threshold (ppm)	Not applicable.
pH (Value)	Not available.
Melting Point (°C) / Freezing Point (°C)	1704 (3,100 °F)
Boiling point/boiling range (°C):	Not available.
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)	2.6–2.8 (22-24 lbs./gallon)
Specific Gravity	2.65-2.85
Solubility (Water)	1.5 g/l @ 20°C (Aluminum Hydroxide)
Solubility (Other)	Not known
Partition Coefficient (n-Octanol/water)	Not available.
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.
Possibility of hazardous reactions	None known
Conditions to avoid	Incompatible materials
Incompatible materials	Acids and Oxidizers
Hazardous decomposition product(s)	None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

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

Acute toxicity	LD50 (rat): >5000 mg/kg bw 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
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
No.	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.

Dibenzoyl Peroxide (CAS# 94-36-0):

Acute toxicity	LD50 (rat): >2000 mg/kg bw LD50 (dermal): Not available. LC50 (inhalation, fume): >24.3 mg/m ³
Irritation/Corrosivity	Causes eye irritation.
Sensitization	May cause sensitization by skin contact.
Repeated dose toxicity	Not to be expected.
Carcinogenicity	Not to be expected.

NTP	IARC	ACGIH	OSHA
No.	No	No	No

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity (Proprietary Wetting Agent)

Short term	LL50 (48 hour): 0.8 mg/l (Fish) LL50 (48 hour): 202 µg/L (Aquatic Invertebrates)
Long Term	No data
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	The whole fish BCF was found to be 1850
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	Not classified as dangerous for transport.		
Transport hazard class(es)			
Packing group			
Environmental hazards			
Special precautions for user			
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.
Dibenzoyl peroxide	94-36-0	0.4 - 1.0

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

H241: Heating may cause a fire or explosion.
H317: May cause an allergic skin reaction.
H320: Causes eye irritation.
H350: May cause cancer.
H372: Causes damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Additional Information: None.

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