



### Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

## Rapid Set Asphalt Resurfacer

### SECTION 1: Identification

**Product identifier**

**Product name:** Rapid Set Asphalt Resurfacer  
**Product code:** 185320025, 185310050

**Recommended use of the product and restriction on use**

**Relevant identified uses:** Use for asphalt repair applications  
**Uses advised against:** Not determined or not applicable.  
**Reasons why uses advised against:** Not determined or not applicable.

**Manufacturer or supplier details**

**Manufacturer:**

**United States**  
CTS Cement Manufacturing Corporation  
12442 Knott St.  
Garden Grove, CA 92841  
800-929-3030  
info@ctscement.com

**Emergency telephone number:**

**United States**  
INFOTRAC 1-800-535-5053  
**International**  
INFOTRAC 1-352-323-3500

### SECTION 2: Hazard(s) identification

**GHS classification:**

Skin irritation, category 2  
Serious eye damage, category 1  
Carcinogenicity, category 1A  
Specific target organ toxicity - single exposure, category 3, respiratory irritation  
Specific target organ toxicity - repeated exposure, category 2  
Skin sensitization, category 1  
Respiratory sensitization, category 1

**Label elements**

**Hazard Pictograms:**



**Signal word:** Danger

**Hazard statements:**

H315 Causes skin irritation.

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- H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 H335 May cause respiratory irritation.  
 H350 May cause cancer.  
 H372 Causes damage to organs (lungs) through prolonged or repeated exposure by inhalation.

**Precautionary statements:**

- 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.  
 P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing must not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P284 Wear respiratory protection.  
 P321 Specific treatment (see supplemental first aid instructions on this label).  
 P362 Take off contaminated clothing and wash it before reuse.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313 if skin irritation or rash occurs: Get medical advice/attention.  
 P310 Immediately call a POISON CENTER or doctor/physician.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.  
 P308+P313 If exposed or concerned: Get medical advice/attention.  
 P405 Store locked up.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified:** None.**SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 12004-14-7	Aluminum calcium oxide sulfate	1-15
CAS number: 10034-77-2	Dicalcium silicate	1-20
CAS number: 7778-18-9	Calcium sulfate	1-5
CAS number: 14808-60-7	Silica, crystalline quartz	35-65

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CAS number: Proprietary	VAE polymer	2-10
CAS number: 9003-55-8	Synthetic rubber	0.1-5
CAS number: 9006-04-6	Natural rubber	0.1-5
CAS number: 1333-86-4	Carbon black	<2.5
CAS number: 1317-65-3	Ground calcium carbonate	1-10
CAS number: 546-93-0	Magnesium carbonate	<1.0

**Additional Information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

\*Cement is primarily comprised of calcium compounds with oxides of aluminum, iron, sulfur, and silica. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis. Trace constituents may include, but are not limited to, magnesium, potassium, sodium oxides, and hexavalent chromium.

**SECTION 4: First aid measures****Description of first aid measures****General notes:**

Show this Safety Data Sheet to the doctor in attendance.

**After inhalation:**

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention.

**After skin contact:**

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention.

**After eye contact:**

Immediately rinse eyes with plenty of gently flowing lukewarm water for 15 minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. Seek immediate medical attention, preferably from an ophthalmologist.

**After swallowing:**

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.



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

##### Acute symptoms and effects:

**SKIN CONTACT:** Exposure may cause irritation. Symptoms include redness, itching, burning and inflammation. Exposure to wet material may cause severe skin burns and irreversible tissue damage.

**EYE CONTACT:** Exposure may cause serious eye damage. Symptoms include irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage, and loss of vision.

**INHALATION:** Inhalation of dust may irritate the nose, throat, and respiratory tract. Symptoms include cough, sore throat, shortness of breath and inflammation of the mucous membranes lining the respiratory tract.

**INGESTION:** Ingestion is an improbable route of exposure. Ingestion of wet material would cause corrosive burns to mouth, esophagus and stomach. Symptoms include pain, tissue damage, nausea and vomiting.

##### Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Exposure to respirable silica may cause cancer and damage to organs. Prolonged and/or repeated exposure to silica-containing dust may cause lung damage and a lung disease called silicosis. Silicosis is a progressive and disabling lung disease that causes pulmonary fibrosis, chronic obstructive pulmonary disorder (COPD) and lung cancer. Silicosis lowers the immune system and makes an individual more susceptible to tuberculosis. Silicosis may also cause renal disease and scleroderma – a disease affecting skin, blood vessels, joints and skeletal muscles. Symptoms of silicosis may include (but are not limited to) shortness of breath, difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Not all individuals with silicosis will exhibit symptoms of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposure have ceased.

#### Immediate medical attention and special

##### treatment Specific treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued. Exposure to wet material requires prompt medical treatment.

##### Notes for the doctor:

Treat symptomatically.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

##### Unsuitable extinguishing media:

Do not use water jet.

#### Specific hazards during fire-fighting:

Thermal decomposition may produce irritating and toxic fumes including carbon oxides, sulfur oxides, silicon oxides and metal oxides.

#### Special protective equipment for firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA with a full face piece operated in positive pressure mode).

#### Special precautions:

Move containers from area of fire, if safe to do so. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

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**Rapid Set Asphalt Resurfacer****SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Do not breathe dust. Stay upwind. Do not get on skin, eyes or on clothing. Wear recommended personal protective equipment (see section 8). Do not walk through spilled material. Wash thoroughly after handling.

**Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up:**

Minimize generation of dust. Do not dry sweep or use compressed air for clean-up. Wet dry material and then scrape up wet material and place in a suitable container for future disposal. Dispose of in accordance with all applicable regulations (see section 13).

**Reference to other sections:**

For personal protective equipment see section 8. For disposal see section 13.

**SECTION 7: Handling and storage****Precautions for safe handling:**

Use appropriate personal protective equipment (see section 8). Avoid exposure by obtaining and following special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation when possible. Do not get in the eyes or on skin or clothing. Do not breathe dust. Use only with adequate ventilation. Wear appropriate respiratory when ventilation is inadequate. Do not eat, drink, or smoke while handling this product. Wash hands, forearms and face after handling. Keep away from incompatible materials (see section 10). Keep containers tightly closed when not in use.

**Conditions for safe storage, including any incompatibilities:**

Store in a cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (see section 10).

**SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Silica, crystalline quartz (Respirable)	14808-60-7	ACGIH TLV TWA 0.025 mg/m <sup>3</sup> (Respirable fraction)
	Total Silica, crystalline quartz	14808-60-7	TWA 0.025000 mg/m <sup>3</sup> USA. ACGIH
	Ground calcium carbonate	1317-65-3	8-Hour TWA: 10 mg/m <sup>3</sup> (inhalable particulate matter containing no asbestos and <1% crystalline silica)

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	Ground calcium carbonate	1317-65-3	8-Hour TWA: 3 mg/m <sup>3</sup> (respirable particles)
	Carbon black	1333-86-4	8-Hour TWA: 3 mg/m <sup>3</sup>
	Magnesium carbonate	546-93-0	TWA: 10 mg/m <sup>3</sup> (Particulate matter containing no asbestos and <1% crystalline silica)
United States (OSHA)	Silica, crystalline quartz (Respirable)	14808-60-7	OSHA 8-hour TWA PEL: 0.025 mg/m <sup>3</sup> (Respirable fraction, action level)
	Silica, crystalline quartz (Respirable)	14808-60-7	OSHA 8-hour TWA PEL: 0.05 mg/m <sup>3</sup> (Respirable fraction, exposure limit level)
	Total Silica, crystalline quartz	14808-60-7	TWA 30.000000 mg/m <sup>3</sup> / %SiO <sub>2</sub> +2 USA. OSHA
	Total Silica, crystalline quartz	14808-60-7	TWA 0.050000 mg/m <sup>3</sup> USA. NIOSH
	Ground calcium carbonate	1317-65-3	8-Hour TWA-PEL: 15 mg/m <sup>3</sup> (total dust)
	Ground calcium carbonate	1317-65-3	8-Hour TWA-PEL: 5 mg/m <sup>3</sup> (respirable fraction -PNOR)
	Carbon black	1333-86-4	PEL: 3.5 mg/m <sup>3</sup> (Table Z-1)
	Carbon black	1333-86-4	TWA: 3.5 mg/m <sup>3</sup> (Table Z-1-A)
	Magnesium carbonate	546-93-0	TWA: 15 mg/m <sup>3</sup> (Total dust)
	Magnesium carbonate	546-93-0	TWA: 5 mg/m <sup>3</sup> (Respirable fraction)

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Silica, crystalline quartz (Respirable)	14808-60-7	NIOSH TWA 0.05 mg/m <sup>3</sup>
	Ground calcium carbonate	1317-65-3	REL-TWA: 10 mg/m <sup>3</sup> (total dust – up to 10 hrs.)
	Ground calcium carbonate	1317-65-3	REL-TWA: 5 mg/m <sup>3</sup> (respirable fraction – up to 10 hrs.)
	Carbon black	1333-86-4	REL: 3.5 mg/m <sup>3</sup> (10 hr)
	Carbon black	1333-86-4	IDLH: 1750 mg/m <sup>3</sup>
	Carbon black	1333-86-4	REL: 0.1 mg/m <sup>3</sup> ((10 hr)(in presence of polycyclic aromatic hydrocarbons))

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	Magnesium carbonate		REL: 5 mg/m <sup>3</sup> (Respirable fraction)
	Magnesium carbonate		REL: 10 mg/m <sup>3</sup> (Total dust)
United States (California)	Silica, crystalline quartz	14808-60-7	8-Hour TWA-PEL: 0.05 mg/m <sup>3</sup>

**Biological limit values:**

No biological exposure limits noted for the ingredient(s).

**Information on monitoring procedures:**

Not determined or not applicable.

**Appropriate engineering controls:**

Use local exhaust, mechanical ventilation or additional engineering measures to maintain airborne concentration below any occupational exposure limits. Ensure that emergency eyewash station and safety shower are in good working order and in the immediate vicinity of any possible exposure.

**Personal protection equipment****Eye and face protection:**

Use safety goggles with side shields or glasses. Consider the use of a face shield for splash protection. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

**Skin and body protection:**

Chemical-resistant, impervious gloves, complying with an approved standard should be worn at all times when handling chemical products. Consider the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a positive pressure air supplied respiratory if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**General hygienic measures:**

Handle in accordance with good industrial hygiene and safety measures. Wash hands and face after handling chemical products. Wash hands before eating, drinking and smoking. Wash hands at the end of the workday. Appropriate techniques should be applied to remove contaminated clothing and shoes. Wash contaminated clothing before reuse.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Solid, dark gray powder
<b>Odor</b>	Low

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Odor threshold	Not available
pH	11 - 12 when wet
Melting point/freezing point	Not available
Initial boiling point/range	Not applicable
Flash point (closed cup)	Not available
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Density	Not available
Relative density	2.7 – 3.1 at 20°C
Solubilities	Partially soluble
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	2460°F (1350°C)
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Explosive properties	Not available
Oxidizing properties	Not available

**Other information**

VOC (Weight %)	0 g/l when mixed with water
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**SECTION 10: Stability and reactivity****Reactivity:**

Does not react under normal conditions of use and storage.

**Chemical stability:**

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**

Hazardous reactions are not anticipated under recommended conditions of handling and storage. Crystalline silica may react violently with strong oxidizing agents, resulting in a fire/explosion hazard. Silica dissolves in hydrofluoric acid to produce silicon tetrafluoride, a corrosive gas. Wet cement is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

**Conditions to avoid:**

Incompatible materials; Dust generation and accumulation; Unintentional contact with water.

**Incompatible materials:**

Strong oxidizing agents; Hydrofluoric acid. Wet cement is alkaline and incompatible with acids, ammonium salts and aluminum metal.

**Hazardous decomposition products:**



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Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information****Information on toxicological effects:****Acute toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.

Name	Route	Result
Carbon black	Oral	LD50 Rat: 8000 mg/kg

**Skin corrosion/irritation****Assessment:** Causes skin irritation.**Product data:** No data is available.**Substance data:**

Name	Result
Dicalcium silicate	Causes skin irritation.

**Serious eye damage/irritation****Assessment:** Causes serious eye damage.**Product data:** No data is available.**Substance data:**

Name	Result
Dicalcium silicate	Causes serious eye damage.

**Respiratory or skin sensitization****Assessment:**

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Product data:** No data is available.**Substance data:**

Name	Result
Dicalcium silicate	May cause an allergic skin reaction.
Natural rubber	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Carcinogenicity****Assessment:** May cause cancer.**Product data:** No data is available.**Substance data:**

Name	Species	Result
Silica, crystalline quartz (Respirable)	Not applicable	Component may cause cancer.

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Total Silica, crystalline quartz	Not applicable	1 - Group 1: Carcinogenic to humans (Quartz)
Carbon black	Not applicable	Suspected of causing cancer by inhalation exposure route.

**International Agency for Research on Cancer (IARC):**

Name	Classification
Silica, crystalline quartz (Respirable)	Group 1 - Carcinogenic to humans
Synthetic rubber	Group 3
Carbon black	Group 2B

**National Toxicology Program (NTP):**

Name	Classification
Silica, crystalline quartz (Respirable)	Known to be human carcinogens

**OSHA Carcinogens:**

Ingredient Name	CAS	OSHA Carcinogens Status
Silica, crystalline quartz (respirable)	14808-60-7	Yes

**Germ cell mutagenicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Reproductive toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Specific target organ toxicity (single exposure)****Assessment:** May cause respiratory irritation**Product data:** No data is available.**Substance data:**

Name	Result
Dicalcium silicate and Calcium Sulfate	May cause respiratory irritation.

**Specific target organ toxicity (single exposure)****Assessment:** May cause respiratory irritation

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Name	Result
Silica, crystalline quartz	Causes damage to organs (lungs; kidneys; immune system) through prolonged or repeated exposure via inhalation.

**Aspiration toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Information on likely routes of exposure:**

Inhalation; Skin contact; Eye contact.

**Symptoms related to the physical, chemical and toxicological characteristics:**

Refer to section 4 of this SDS.

**Other information:**

No data is available.

**SECTION 12: Ecological information****Acute (short-term) toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data available.**Substance data:** No data available.**Chronic (long-term) toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data available.**Substance data:** No data available.**Persistence and degradability****Product data:** No data available.**Substance data:** No data available.**Bioaccumulative potential****Product data:** No data available.**Substance data:** No data available.**Mobility in soil****Product data:** No data available.**Substance data:** No data available.**Results of PBT and vPvB assessment****Product data:****PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

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**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Substance data:**

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT.

**vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

**Other adverse effects:** No data available.

**SECTION 13: Disposal considerations****Disposal methods:**

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities. Dispose of in accordance with all applicable local, regional, state and federal regulations.

**SECTION 14: Transport information****United States Transportation of dangerous goods (49 CFR DOT)**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

**International Maritime Dangerous Goods (IMDG)**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

<b>UN number</b>	Not regulated
<b>UN proper shipping name</b>	Not regulated
<b>UN transport hazard class(es)</b>	None
<b>Packing group</b>	None
<b>Environmental hazards</b>	None
<b>Special precautions for user</b>	None

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**Rapid Set Asphalt Resurfacer****SECTION 15: Regulatory information****United States regulations Inventory listing (TSCA):**

12004-14-7	Aluminum calcium oxide sulfate	Listed
10034-77-2	Dicalcium silicate	Listed
7778-18-9	Calcium sulfate	Listed
14808-60-7	Silica, crystalline quartz	Listed

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 313 toxic chemicals:** None of the ingredients are listed.

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:**

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
1317-65-3	Ground calcium carbonate	Listed
1333-86-4	Carbon black	Listed
546-93-0	Magnesium carbonate	Listed

**New Jersey Right to Know:**

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
1317-65-3	Ground calcium carbonate	Listed
1333-86-4	Carbon black	Listed
546-93-0	Magnesium carbonate	Listed

**New York Right to Know:**

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
1317-65-3	Ground calcium carbonate	Listed

**Pennsylvania Right to Know:**

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
1317-65-3	Ground calcium carbonate	Listed
1333-86-4	Carbon black	Listed

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546-93-0	Magnesium carbonate	Listed
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**California Proposition 65:**

**⚠ WARNING:** Cancer and Reproductive Harm – [www.P65Warning.ca.gov](http://www.P65Warning.ca.gov).

**SECTION 16: Other information****Abbreviations and Acronyms:**

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Road Transport  
AU: Australia  
CA: Canada  
CAS: Chemical Abstracts Service  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
CN: China  
CPR: Controlled Products Regulations  
DFG: Deutsche Forschungsgemeinschaft  
DOT: Department of Transportation  
DSL: Domestic Substances List  
EEC: European Economic Community  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances  
EPA: Environmental Protection Agency  
EU: European Association  
IARC: International Agency for Reach on Cancer  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
JP: Japan  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
CL50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon  
Know: Octanol/water partition coefficient  
KR: Korea  
LEL: Lower Explosive Limit  
UEL: Upper Explosive Limit  
NIOSH: National Institute for Occupational Safety and Health Administration  
PH: Philippines  
RCRA: Resource Conservation and Recovery Act  
OSHA: Occupational Safety and Health Administration  
RID: European Rail Transport  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit



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TDG: Transportation of Dangerous Goods  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average  
US: United States

#### Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 3-0-0

**HMIS:** 3\*-0-0

**Initial preparation date:** 05/14/20

**Version #:** 2

**Revision Date:** 04/15/22

**End of Safety Data Sheet**