



Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

Rapid Set Asphalt Resurfacer

SECTION 1: Identification

Product identifier

Product name: Asphalt Resurfacer

Product code: 185320025, 185310050

Recommended use of the product and restriction on use

Relevant identified uses: Use for cement 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@ctsceement.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

Specific target organ toxicity - single exposure, category 3, respiratory irritation

Carcinogenicity, category 1A

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:

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H335 May cause respiratory irritation.

H350 May cause cancer.

H372 Causes damage to 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.

P233 Keep container tightly closed.

P281 Use personal protective equipment as required.

P284 Wear respiratory protection.

P321 Specific treatment (see supplemental first aid instructions on this label).

P362 Take off contaminated clothing and wash before reuse

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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 sulfates	1-15
CAS number: 10034-77-2	Dicalcium silicate	1-20
CAS number: 7778-18-9	Calcium sulfates	1-5

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Identification	Name	Weight %
CAS number: 14808-60-7	Silica, crystalline quartz	35-65
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: 133-86-4	Carbon black	<2.5
CAS number: 1317-65-3	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



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persist, seek medical advice/attention.

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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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:

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

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:

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Silica, crystalline quartz (Respirable)	14808-60-7	ACGIH TLV TWA 0.025 mg/m ³ (Respirable fraction)
	Total Silica, crystalline quartz	14808-60-7	TWA 0.025000 mg/m ³ USA. ACGIH
	Calcium carbonate	1317-65-3	8-Hour TWA: 10 mg/m ³ (Inhalable particulate matter containing no asbestos and <1% crystalline silica)
	Calcium carbonate	1317-65-3	8-Hour TWA: 3 mg/m ³ (Respirable particles)
	Carbon black	1333-86-4	8-Hour TWA: 3 mg/m ³
	Magnesium carbonate	546-93-0	TWA: 10 mg/m ³ (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 ³ (Respirable fraction, action level)
	Silica, crystalline quartz (Respirable)	14808-60-7	OSHA 8-hour TWA PEL: 0.05 mg/m ³ (Respirable fraction, exposure limit level)
	Total Silica, crystalline quartz	14808-60-7	TWA 30.000000 mg/m ³ / %SiO ₂ +2 USA. OSHA
	Total Silica, crystalline quartz	14808-60-7	TWA 0.050000 mg/m ³ USA. NIOSH
	Calcium carbonate	1317-65-3	8-Hour TWA-PEL: 15 mg/m ³ (Total dust)
	Calcium carbonate	1317-65-3	8-Hour TWA-PEL: 5 mg/m ³ (Respirable fraction -PNOR)
	Carbon black	1333-86-4	PEL: 3.5 mg/m ³ (Table Z-1)
	Carbon black	1333-86-4	TWA: 3.5 mg/m ³ (Table Z-1-A)
	Magnesium carbonate	546-93-0	TWA: 15 mg/m ³ (Total dust)
Magnesium carbonate	546-93-0	TWA: 5 mg/m ³ (Respirable fraction)	

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Silica, crystalline quartz (Respirable)	14808-60-7	NIOSH TWA 0.05 mg/m ³
	Calcium carbonate	1317-65-3	REL-TWA: 10 mg/m ³ (Total dust - up to 10 hrs)
	Calcium carbonate	1317-65-3	REL-TWA: 5 mg/m ³ (Respirable dust - up to 10 hrs)
	Carbon black	1333-86-4	REL: 3.5 mg/m ³ (10 hrs)
	Carbon black	1333-86-4	IDLH: 1750 mg/m ³
	Carbon black	1333-86-4	REL: 0.1 mg/m ³ (10 hrs)
	Magnesium carbonate	546-93-0	REL: 5 mg/m ³ (Respirable fraction)
	Magnesium carbonate	546-93-0	REL: 10 mg/m ³ (Total dust)

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. Considerign 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

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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**

Appearance	Solid; tan powder
Odor	Low
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	Not available
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:**

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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:

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:

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: No data is available.

Name	Result
Dicalcium silicate	Causes serious eye damage.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data: No data is available.

Substance data:

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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.
Total Silica, crystalline quartz		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
Carbon black	Group 2B

National Toxicology Program (NTP):

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

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

Aspiration toxicity

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Rapid Set Asphalt Resurfacer**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:**

No data is available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

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.**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)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None

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Packing group	None
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

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

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

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

SECTION 15: Regulatory information**United States regulations Inventory listing (TSCA):**

12004-14-7	Aluminum calcium oxide sulfite	Listed
10034-77-2	Dicalcium silicate	Listed
7778-18-9	Calcium sulfite	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
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New Jersey Right to Know:

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
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Rapid Set Asphalt Resurfacer**New York Right to Know:**

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
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Pennsylvania Right to Know:

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
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California Proposition 65:

L WARNING: Can expose you to crystalline silica*, a carcinogen, and hexavalent chromium, a reproductive toxicant. See www.P65Warnings.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 Research 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



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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

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

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End of Safety Data Sheet