

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 01/14/2021

SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Trade name	: Reno ElectroCast	™ 310 SiC		
Product code	: 194020			
I.2. Recommended use and restriction				
Recommended use	: Refractory Applic	ations		
1.3. Supplier				
Reno Refractories, Inc. 601 Reno Drive				
P.O. Box 201				
Morris, AL 35116 - United States T 205-647-0240 - F 205-647-6854				
sales@r-ref.com - www.renorefractories.com				
I.4. Emergency telephone number				
Emergency number	: 1-800-262-8200 (	CHEMTREC		
SECTION 2: Hazard(s) identification				
2.1. Classification of the substance or	nixture			
GHS US classification				
Corrosive to metals Category 1		rosive to metals		
Carcinogenicity Category 1A	May cause	cancer		
.2. GHS Label elements, including pre	cautionary statements			
GHS US labeling	,			
Hazard pictograms (GHS US)	: 🔨	~		
Signal word (GHS US)	: Danger	•		
Hazard statements (GHS US)	: May be corrosive	to metals		
	May cause cance			
Precautionary statements (GHS US)	: Obtain special ins			d and an damaka a d
	Keep only in origi	nal container.	autions have been rea	d and understood.
	Wear protective g	loves/protective	clothing/eye protection	n/face protection.
	If exposed or con Absorb spillage to		ical advice/attention.	
			ner with a resistant inr	er liner.
	Dispose of conter	nts/container to h	azardous or special w	aste collection point, in accordance
	with local, regiona	al, national and/o	r international regulati	on.
2.3. Other hazards which do not result	in classification			
lo additional information available				
.4. Unknown acute toxicity (GHS US)				
lot applicable				
SECTION 3: Composition/Informati	on on ingredients			
3.1. Substances				
Not applicable				
3.2. Mixtures				
Name		ct identifier	%	GHS US classification
Silicon carbide	(CAS-No	.) 409-21-2	6.64 – 13.86	Carc. 1B, H350
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Name	Product identifier	%	GHS US classification
Titanium dioxide	(CAS-No.) 13463-67-7	1.16 – 3.09425	Carc. 2, H351
Crystalline silica	(CAS-No.) 14808-60-7	≤ 0.5	Carc. 1A, H350 STOT RE 1, H372

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and effe	cts (acute and delayed)
4.2 Immediate medical attention and a	and the two the second
4.3. Immediate medical attention and sp Treat symptomatically.	Jecial treatment, in necessary
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguisl	hing media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising from the cl	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and p	precautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release mea	isures
6.1. Personal precautions, protective eq	quipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify authorit	ties if product enters sewers or public waters.
6.3. Methods and material for containing	ent and cleaning up
Methods for cleaning up	: Mechanically recover the product. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, inclue	Conditions for safe storage, including any incompatibilities	
Storage conditions	: Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store in a well-ventilated place. Keep cool.	
Incompatible materials	: Metals.	

# SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Reno ElectroCast™ 310 SiC		
No additional information available		
Titanium dioxide (13463-67-7)		
USA - ACGIH - Occupational Exposure Lir	nits	
Local name	Titanium dioxide	
ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>	
Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Lim	its	
Local name	Titanium dioxide (Total dust)	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m³	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Silicon carbide (409-21-2)		
USA - ACGIH - Occupational Exposure Lin	nits	
Local name	Silicon carbide	
ACGIH TWA (mg/m³)	<ul> <li>3 mg/m³ (Respirable fraction. The value is for particulate matter containing no asbestos and &lt; 1% crystalline silica)</li> <li>0.1 fibers/cm³ (Respirable fibers: length &gt; 5 μm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination)</li> <li>10 mg/m³ (Inhalable fraction. The value is for particulate matter containing no asbestos and &lt; 1% crystalline silica)</li> </ul>	
Remark (ACGIH)	Non fibrous = TLV® Basis: URT irr Fibrous (including whiskers) = TLV® Basis: Mesothelioma; cancer. Notations: A2 (Suspected Human Carcinogen)	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Lim	its	
Local name	Silicon carbide	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (Total dust) 5 mg/m <sup>3</sup> (Respirable fraction)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Crystalline silica (14808-60-7)		
USA - ACGIH - Occupational Exposure Lir	nits	
Local name	Silica crystaline - quartz	
ACGIH TWA (mg/m <sup>3</sup> )	0.025 mg/m <sup>3</sup> (Respirable fraction)	
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)	
Regulatory reference	ACGIH 2020	
USA - OSHA - Occupational Exposure Lim	its	
Local name	Quartz (Respirable) (Silica: Crystalline)	
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formulas: (250 / (%SiO2+5)) for mppcf and (10 mg/m3 / (%SiO2+2)) for mg/m3. CAS No. source: eCFR Table Z-1.	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts	

8.2.	Appropriate engineering controls	
Appro	priate engineering controls	: Ensure good ventilation of the work station.
Enviro	onmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

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### Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

### **Respiratory protection:**

Wear respiratory protection.

Personal protective equipment symbol(s):



### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state : Solid Color : Grey Odor : Almost odourless Odor threshold : No data available pН : No data available Melting point : No data available Freezing point : Not applicable Boiling point : No data available Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available amability (aalid mahl

Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

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# 10.3. Possibility of hazardous reactions No dangerous reactions known under normal conditions of use. 10.4. Conditions to avoid None under recommended storage and handling conditions (see section 7). 10.5. Incompatible materials

metals.

10.6. Hazardous decomposition products

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

<b>.</b>	· · · · · · · · · · · · · · · · · · ·
SECTION 11: Toxicological inform	hation
11.1. Information on toxicological effe	ects
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
Silicon carbide (409-21-2)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: May cause cancer.
Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Silicon carbide (409-21-2)	
IARC group	2A - Probably carcinogenic to humans
Crystalline silica (14808-60-7)	
IARC group	1 - Carcinogenic to humans
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Crystalline silica (14808-60-7)	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not classified
Viscosity, kinematic	: No data available
-	

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.	
Titanium dioxide (13463-67-7)		
LC50 fish 1	> 100 mg/l (Equivalent or similar to OECD 203, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, Nominal concentration)	,
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Titanium dioxide (13463-67-7)	
ErC50 (algae)	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh
	water, Experimental value, Nominal concentration)

## 12.2. Persistence and degradability

Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Silicon carbide (409-21-2)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Crystalline silica (14808-60-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

# 12.3. Bioaccumulative potential

Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.
Silicon carbide (409-21-2)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Crystalline silica (14808-60-7)	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
Titanium dioxide (13463-67-7)	
Ecology - soil	Low potential for mobility in soil.
Crystalline silica (14808-60-7)	
Ecology - soil	No (test)data on mobility of the substance available.

# 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal conside	erations
13.1. Disposal methods	
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
<b>SECTION 14: Transport inform</b>	ation
Department of Transportation (DOT)	

In accordance with DOT

Not applicable

# Transportation of Dangerous Goods

Not applicable

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# Transport by sea

Not applicable

# Air transport

Not applicable

15.1. US Federal regulations         Titanium dioxide (13463-67-7)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Silicon carbide (409-21-2)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         Crystalline silica (14808-60-7)         Listed on the United States TSCA (Toxic Substances Control Act) inventory         15.2. International regulations         CANADA         Titanium dioxide (13463-67-7)         Listed on the Canadian DSL (Domestic Substances List)         Silicon carbide (409-21-2)         Listed on the Canadian DSL (Domestic Substances List)         Silicon carbide (409-21-2)         Listed on the Canadian DSL (Domestic Substances List)         Silicon arabide (13463-67-7)         Listed on the Canadian DSL (Domestic Substances List)         Crystalline silica (14808-60-7)         Listed on the Canadian DSL (Domestic Substances List)         Crystalline silica (14808-60-7)         Listed on the Canadian DSL (Domestic Substances List)         EU-Regulations         National regulations         Titanium dioxide (13463-67-7)         Listed on IARC (International Agency for Research on Cancer)         Silicon carbide (409-21-2)         Listed on IARC (International Agency for Research on Cancer)         Si	SECTION 15: Regulatory information
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Listed on IARC (International Agency for Research on Cancer)	Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

Component	State or local regulations
Titanium dioxide(13463-67-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Silicon carbide(409-21-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Crystalline silica(14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

# **SECTION 16: Other information**

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Revision date

: 01/14/2021

Full text of H-phrases:

H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure

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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SDS US (GHS HazCom 2012)

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