

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 03/13/2020

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: Reno Plastic 80 SIC
Product code	: 247300
1.2. Recommended use and restrictions of	
Recommended use	: Refractory Applications
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	
1.4. Emergency telephone number	
Emergency number	: 1-800-262-8200 CHEMTREC
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	kture
GHS US classification Corrosive to metals Category 1	May be corrosive to metals
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 1 Carcinogenicity Category 1A Specific target organ toxicity (repeated exposure Category 1	Causes skin irritation Causes serious eye damage May cause cancer ) Causes damage to organs through prolonged or repeated exposure
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	<ul> <li>May be corrosive to metals Causes skin irritation Causes serious eye damage May cause cancer Causes damage to organs through prolonged or repeated exposure</li> </ul>
Precautionary statements (GHS US)	<ul> <li>Obtain special instructions before use.</li> <li>Do not handle until all safety precautions have been read and understood.</li> <li>Keep only in original container.</li> <li>Do not breathe dust/fume/gas/mist/vapours/spray.</li> <li>Wash hands, forearms and face thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If on skin: Wash with plenty of water.</li> <li>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>If exposed or concerned: Get medical advice/attention.</li> <li>Immediately call a poison center or doctor.</li> <li>Get medical advice/attention if you feel unwell.</li> <li>Specific treatment (see supplemental first aid instruction on this label).</li> <li>If skin irritation occurs: Get medical advice/attention.</li> <li>Take off contaminated clothing and wash it before reuse.</li> <li>Absorb spillage to prevent material-damage.</li> <li>Store in corrosive resistant container with a resistant inner liner.</li> <li>Dispose of contents/container to hazardous or special waste collection point, in accordance</li> </ul>
03/13/2020	EN (English US) Page 1

## Safety Data Sheet

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

with local, regional, national and/or international regulation.

### 2.3. Other hazards which do not result in classification

#### No additional information available

### 2.4. Unknown acute toxicity (GHS US)

#### Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Silicon carbide	(CAS-No.) 409-21-2	63.53 - 71	Carc. 1B, H350
Phosphoric acid	(CAS-No.) 7664-38-2	2.4 - 4.55	Met. Corr. 1, H290 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1, H314 Eye Dam. 1, H318
Crystalline silica	(CAS-No.) 14808-60-7	< 3.36	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. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.	
First-aid measures after eye contact	<ul> <li>Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.</li> </ul>	
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.	
4.2. Most important symptoms and eff	fects (acute and delayed)	
Symptoms/effects after skin contact	: Irritation.	
Symptoms/effects after eye contact	: Serious damage to eyes.	
4.3. Immediate medical attention and	special treatment, if necessary	
Treat symptomatically.		
<b>SECTION 5: Fire-fighting measures</b>	5	
5.1. Suitable (and unsuitable) extingui		
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Specific hazards arising from the	chemical	
No additional information available		
5.3. Special protective equipment and	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 me	asures	
6.1. Personal precautions, protective	equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.	
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 authorities if product enters sewers or public waters.

Safety Data Sheet

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

6.3. Methods and material for contain	iment 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.	
<b>SECTION 7: Handling and storage</b>	
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. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage conditions	: Store in corrosive resistant container with a resistant inner liner. Keep only in original containe Store in a well-ventilated place. Keep cool.
Incompatible materials	: Metals.

# SECTION 8: Exposure controls/personal protection

1. Control parameters		
Reno Plastic 80 SIC		
No additional information available		
Crystalline silica (14808-60-7)		
USA - ACGIH - Occupational Exposure Lir		
Local name	Silica crystaline - quartz	
ACGIH TWA (mg/m³)	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 2019	
USA - OSHA - Occupational Exposure Lin	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	
Phosphoric acid (7664-38-2)		
USA - ACGIH - Occupational Exposure Lir	nits	
Local name	Phosphoric acid	
ACGIH TWA (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
ACGIH STEL (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>	
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr	
Regulatory reference	ACGIH 2019	
USA - OSHA - Occupational Exposure Limits		
Local name	Phosphoric acid	
OSHA PEL (TWA) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup>	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	
Silicon carbide (409-21-2)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Silicon carbide	

## Safety Data Sheet

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

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 2019	
USA - OSHA - Occupational Exposure Lim	its	
Local name	Silicon carbide	
OSHA PEL (TWA) (mg/m³)	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)	
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1	

### 8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

#### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Wear respiratory protection.

<b>SECTION 9: Physical and chemica</b>	l properties
9.1. Information on basic physical and	I chemical properties
Physical state	: Solid
Color	: Grey to black
Odor	: Almost odourless
Odor threshold	: No data available
рН	: 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
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 2.6 - 2.8
Solubility	: Water: < 0.1 %
Log Pow	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available

# Safety Data Sheet

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

scosity, dynamic : No data available	
Iosion limits : Not applicable	
Explosive properties	: No data available
Oxidizing properties	: No data available
.2. Other information	
VOC content	: 0 %
ECTION 10: Stability and reacti	vity
0.1. Reactivity	
he product is non-reactive under normal co	onditions of use, storage and transport.
0.2. Chemical stability	
table under normal conditions.	
0.3. Possibility of hazardous reaction	ons
o dangerous reactions known under norm	
0.4. Conditions to avoid	
one under recommended storage and har	Idling conditions (see section 7).
0.5. Incompatible materials	
netals.	
	luoto
0.6. Hazardous decomposition proc	hazardous decomposition products should not be produced.
-	
ECTION 11: Toxicological infor	
1.1. Information on toxicological eff	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Phosphoric acid (7664-38-2)	
Phosphoric acid (7664-38-2) LD50 oral rat	2600 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Female, Experimental value, Oral, 7 day(s))
LD50 oral rat	value, Oral, 7 day(s))
LD50 oral rat LD50 dermal rabbit	value, Oral, 7 day(s)) 2740 mg/kg body weight (Rabbit, Experimental value, Skin) 0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value,
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat Female, Experimental value, Oral)
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat,
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.90 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.90 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.         : Causes serious eye damage.
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.97 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat. Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.         : Causes serious eye damage.         : Not classified         : Not classified
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.97 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Crystalline silica (14808-60-7)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 423: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.         : Causes serious eye damage.         : Not classified         : Not classified         : May cause cancer.
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (vapors) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.         : Causes serious eye damage.         : Not classified         : Not classified
LD50 oral rat LD50 dermal rabbit LC50 inhalation rat (mg/l) ATE US (oral) ATE US (dermal) ATE US (dermal) ATE US (dust, mist) Silicon carbide (409-21-2) LD50 oral rat LD50 dermal rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Germ cell mutagenicity Carcinogenicity Crystalline silica (14808-60-7)	value, Oral, 7 day(s))         2740 mg/kg body weight (Rabbit, Experimental value, Skin)         0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))         2600 mg/kg body weight         2740 mg/kg body weight         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         0.96 mg/l/4h         2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 423: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Oral)         > 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal)         : Causes skin irritation.         : Causes serious eye damage.         : Not classified         : Not classified         : May cause cancer.

## Safety Data Sheet

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

STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
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
Symptoms/effects after skin contact	: Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.

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.
Phosphoric acid (7664-38-2)	
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Nominal concentration)

> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)

12.2.	Persistence	and degradability

ErC50 (algae)

Crystalline silica (14808-60-7)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
Phosphoric acid (7664-38-2)			
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		
12.3. Bioaccumulative potential	12.3. Bioaccumulative potential		
Crystalline silica (14808-60-7)			
Bioaccumulative potential	No bioaccumulation data available.		
Phosphoric acid (7664-38-2)			
Bioaccumulative potential	Not bioaccumulative.		
Silicon carbide (409-21-2)			
Bioaccumulative potential	Bioaccumulation: not applicable.		
12.4. Mobility in soil			
Crystalline silica (14808-60-7)			

Crystannie Snica (14608-60-7)	
Ecology - soil	No (test)data on mobility of the substance available.
Phosphoric acid (7664-38-2)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. (	Other a	dverse	effects
---------	---------	--------	---------

No additional information available

Safety Data Sheet

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

SECTION 13: Disposal considerations 13.1. Disposal methods	
	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport information	
Department of Transportation (DOT)	
In accordance with DOT	
Not applicable	
Transportation of Dangerous Goods	
Not applicable	
Transport by sea	
Not applicable	
Air transport	
Not applicable	
SECTION 15: Regulatory information	
15.1. US Federal regulations	
Crystalline silica (14808-60-7)	
Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory
Phosphoric acid (7664-38-2)	
Listed on the United States TSCA (Toxic Substan Not subject to reporting requirements of the United	

CERCLA RQ

Silicon carbide (409-21-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

5000 lb

### 15.2. International regulations

### CANADA

Crystalline silica (14808-60-7)	
Listed on the Canadian DSL (Domestic Substances List)	
Phosphoric acid (7664-38-2)	
Listed on the Canadian DSL (Domestic Substances List)	
Silicon carbide (409-21-2)	
Listed on the Canadian DSL (Domestic Substances List)	

### **EU-Regulations**

### National regulations

Crystalline silica (14808-60-7)	
Listed on IARC (International Agency for Research on Cancer)	
Silicon carbide (409-21-2)	
Listed on IARC (International Agency for Research on Cancer)	

15.3. US State regulations

## Safety Data Sheet

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

Component	State or local regulations
Crystalline silica(14808-60-7)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Phosphoric acid(7664-38-2)	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

## **SECTION 16: Other information**

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

#### Revision date

: 03/13/2020

#### Full text of H-phrases:

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H331	Toxic if inhaled
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

#### SDS US (GHS HazCom 2012)

The information provided in the Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of it's publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. Reno Refractories, Inc. makes no warranties, expressed or implied, with respect to such information, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.