

Safety Data Sheet

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

Revision date: 06/17/2020

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Trade name : Reno Ladle Cast 60

Product code : 109900

1.2. Recommended use and restrictions on use

Recommended use : Refractory Applications

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

1.4. Emergency telephone number

Emergency number : 1-800-262-8200 CHEMTREC

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A

Skin sensitization, Category 1

Carcinogenicity Category 1A

Specific target organ toxicity (repeated exposure)

Category 1

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction

May cause cancer

Causes damage to organs through prolonged or repeated exposure

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes skin irritation

May cause an allergic skin reaction Causes serious eye irritation

May cause cancer

Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection.

If on skin: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

If exposed or concerned: Get medical advice/attention.

Get medical advice/attention if you feel unwell.

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

If skin irritation occurs: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Wash contaminated clothing before reuse.

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Store locked up.

Dispose of contents/container to hazardous or special waste collection point, in accordance 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
Silica, crystalline – cristobalite	(CAS-No.) 14464-46-1	9.45 - 13.4	STOT RE 1, H372
Amorphous/fused silica	(CAS-No.) 60676-86-0	0 - 3	STOT RE 2, H373
Calcium oxide	(CAS-No.) 1305-78-8	0 - 2.3	Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335
Titanium dioxide	(CAS-No.) 13463-67-7	0.16 - 2.05	Carc. 2, H351
Crystalline silica	(CAS-No.) 14808-60-7	0 - 0.3	Carc. 1A, H350 STOT RE 1, H372
Nickel	(CAS-No.) 7440-02-0	0 - 0.21	Skin Sens. 1, H317 Carc. 2, H351 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 or rash occurs:

Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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 measures

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.

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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.

6.3. Methods and material for containment 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. 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. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Reno Ladle Cast 60			
No additional information available			
Crystalline silica (14808-60-7)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Silica crystaline - quartz		
ACGIH TWA (mg/m³)	0.025 mg/m³ (Respirable fraction)		
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)		
Regulatory reference	ACGIH 2019		
USA - OSHA - Occupational Exposure Limits			
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		
Calcium oxide (1305-78-8)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Calcium oxide		
ACGIH TWA (mg/m³)	2 mg/m³		
Remark (ACGIH)	TLV® Basis: URT irr		
Regulatory reference	ACGIH 2019		
USA - OSHA - Occupational Exposure Limits			
Local name	Calcium oxide		
OSHA PEL (TWA) (mg/m³)	5 mg/m³		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
Titanium dioxide (13463-67-7)			
USA - ACGIH - Occupational Exposure Limits			
Local name	Titanium dioxide		
ACGIH TWA (mg/m³)	10 mg/m³		

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Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)			
Regulatory reference	ACGIH 2019			
USA - OSHA - Occupational Exposure Lim	its			
Local name	Titanium dioxide (Total dust)			
OSHA PEL (TWA) (mg/m³)	15 mg/m³			
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1			
Nickel (7440-02-0)				
USA - ACGIH - Occupational Exposure Lin	nits			
Local name	Nickel, elemental			
ACGIH TWA (mg/m³)	1.5 mg/m³ (Inhalable fraction)			
Remark (ACGIH)	TLV® Basis: Dermatitis; pneumoconiosis. Notations: A5 (Not Suspected as a Human Carcinogen)			
Regulatory reference	ACGIH 2019			
USA - OSHA - Occupational Exposure Lim	its			
Local name	Nickel			
OSHA PEL (TWA) (mg/m³)	1 mg/m³ metal and insoluble compounds (as Ni) 1 mg/m³ soluble compounds (as Ni)			
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1			
Silica, crystalline – cristobalite (14464-46-1	1)			
USA - ACGIH - Occupational Exposure Lin	nits			
Local name	Silica crystaline - cristobalite			
ACGIH TWA (mg/m³)	0.025 mg/m³ (Respirable fraction)			
Remark (ACGIH)	TLV® Basis: Pulm fibrosis; lung cancer. Notations: A2 (Suspected Human Carcinogen)			
Regulatory reference	ACGIH 2019			
USA - OSHA - Occupational Exposure Lim	its			
Local name	Cristobalite (Silica: Crystalline)			
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use ½ the value calculated from the count or mass formulae for quartz. CAS No. source: eCFR Table Z-1.			
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-3 Mineral Dusts			
Amorphous/fused silica (60676-86-0)				
USA - OSHA - Occupational Exposure Lim	its			
Local name	Silica, fused, respirable dust			
OSHA PEL (TWA) (ppm)	20 mppcf			
Remark (OSHA)	Table Z-3. For OSHA PEL (TWA): Use formula: (80 mg/m3 / (%SiO2)) 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

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular powder.

Color : Gray

Odor : Almost odorless Odor threshold : No data available рΗ 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 : Non flammable. Flammability (solid, gas) Vapor pressure No data available Relative vapor density at 20 °C : No data available

Relative density : 2.2 - 2.9 Solubility : Water: < 0.1 % : No data available Log Pow Auto-ignition temperature : Not applicable Decomposition temperature : No data available : No data available Viscosity, kinematic No data available Viscosity, dynamic **Explosion limits** : Not applicable : No data available Explosive properties : No data available Oxidizing properties

9.2. Other information

VOC content : 0 %

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.

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

No additional information available

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Calcium oxide (1305-78-8)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral)

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Calcium oxide (1305-78-8)				
LD50 dermal rabbit	> 2500 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male / female, Experimental value, Dermal)			
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 (mg/l)	> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))			
Nickel (7440-02-0)				
LD50 oral rat	> 9000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral)			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	: Causes serious eye irritation.			
Respiratory or skin sensitization	: May cause an allergic skin reaction.			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: May cause cancer.			
Crystalline silica (14808-60-7)				
IARC group	1 - Carcinogenic to humans			
Titanium dioxide (13463-67-7)				
IARC group	2B - Possibly carcinogenic to humans			
Nickel (7440-02-0)				
IARC group	2B - Possibly carcinogenic to humans			
National Toxicity Program (NTP) Status	Reasonably anticipated to be Human Carcinogen			
Reproductive toxicity	: Not classified			
STOT-single exposure	: Not classified			
Calcium oxide (1305-78-8)				
STOT-single exposure	May cause respiratory irritation.			
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.			
Nickel (7440-02-0)				
Nickel (7440-02-0) STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.			
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STOT-repeated exposure				
STOT-repeated exposure Silica, crystalline – cristobalite (14464-46-	-1)			
STOT-repeated exposure Silica, crystalline – cristobalite (14464-46- STOT-repeated exposure	-1)			
STOT-repeated exposure Silica, crystalline – cristobalite (14464-46- STOT-repeated exposure Amorphous/fused silica (60676-86-0) STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.			
STOT-repeated exposure Silica, crystalline – cristobalite (14464-46-STOT-repeated exposure Amorphous/fused silica (60676-86-0)	Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.			
STOT-repeated exposure Silica, crystalline – cristobalite (14464-46- STOT-repeated exposure Amorphous/fused silica (60676-86-0) STOT-repeated exposure Aspiration hazard	Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. : Not classified			

SECTION 12: Ecological information

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Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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Calcium oxide (1305-78-8)				
LC50 fish 1	>= 1070 mg/l (Equivalent or similar to OECD 203, 96 h, Cyprinus carpio, Static system, Fresh water, Experimental value, Nominal concentration)			
EC50 Daphnia 1	>= 159.6 mg/l (EPA OPP 72-2, 24 h, Crustacea, Static system, Fresh water, Experimental value, Lethal)			
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)			
ErC50 (algae)	61 mg/l (EPA 600/9-78-018, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Nominal concentration)			
Nickel (7440-02-0)				
LC50 fish 1	15.3 mg/l (Other, 96 h, Oncorhynchus mykiss, Semi-static system, Fresh water, Experimental value, Nickel ion)			

12.2. Persistence and degradability

Crystalline silica (14808-60-7)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
Calcium oxide (1305-78-8)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
Titanium dioxide (13463-67-7)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
Nickel (7440-02-0)			
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		
Silica, crystalline – cristobalite (14464-46-1)			
Persistence and degradability	Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable		
ThOD	Not applicable		
BOD (% of ThOD)	Not applicable		
Amorphous/fused silica (60676-86-0)			
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.		
Chemical oxygen demand (COD)	Not applicable (inorganic)		
ThOD	Not applicable (inorganic)		

12.3. Bioaccumulative potential

Crystalline silica (14808-60-7)			
Bioaccumulative potential No bioaccumulation data available.			
Calcium oxide (1305-78-8)			
Bioaccumulative potential Not bioaccumulative.			
Titanium dioxide (13463-67-7)			
Bioaccumulative potential Not bioaccumulative.			

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Nickel (7440-02-0)			
BCF other aquatic organisms 1 1555 (Other, Myrriophyllum sp., Fresh water, Experimental value, Nickel ion)			
Log Pow	-0.57 (Estimated value)		
Bioaccumulative potential Potential for bioaccumulation (500 ≤ BCF ≤ 5000).			
Silica, crystalline – cristobalite (14464-46-1)			
Bioaccumulative potential No test data available.			
Amorphous/fused silica (60676-86-0)			
Bioaccumulative potential No bioaccumulation data available.			

12.4. Mobility in soil

Crystalline silica (14808-60-7)				
Ecology - soil	No (test)data on mobility of the substance available.			
Calcium oxide (1305-78-8)				
Ecology - soil No (test)data on mobility of the substance available.				
Titanium dioxide (13463-67-7)				
Ecology - soil	Low potential for mobility in soil.			
Nickel (7440-02-0)				
Ecology - soil No (test)data on mobility of the substance available.				
Silica, crystalline – cristobalite (14464-46-1)				
Ecology - soil	No (test)data on mobility of the substance available.			
Amorphous/fused silica (60676-86-0)				
Ecology - soil	cology - soil No (test)data on mobility of the substance available.			

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment 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 Substances Control Act) inventory

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Calcium oxide (1305-78-8)

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

Titanium dioxide (13463-67-7)

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

Nickel (7440-02-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 100 lb

Silica, crystalline - cristobalite (14464-46-1)

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

Amorphous/fused silica (60676-86-0)

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

15.2. International regulations

CANADA

Crystalline silica (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

Calcium oxide (1305-78-8)

Listed on the Canadian DSL (Domestic Substances List)

Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

Nickel (7440-02-0)

Listed on the Canadian DSL (Domestic Substances List)

Silica, crystalline - cristobalite (14464-46-1)

Listed on the Canadian DSL (Domestic Substances List)

Amorphous/fused silica (60676-86-0)

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)

Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

Nickel (7440-02-0)

Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program)

15.3. US State regulations

Nickel (7440-02-0)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Yes	No	No	No		

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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
Calcium oxide(1305-78-8)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
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
Nickel(7440-02-0)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Silica, crystalline – cristobalite(14464-46-1)	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
Amorphous/fused silica(60676-86-0)	U.S New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

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Full text of H-phrases:

H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H335	May cause respiratory irritation
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause 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.

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