

# Safety Data Sheet

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

Revision date: 06/14/2022

# **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Trade name : KleenKast™ LPF

Product code : 273300

#### 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**

Carcinogenicity Category 1A

Specific target organ toxicity (repeated exposure)

Category 1

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) : Dange

Hazard statements (GHS US) : 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/vapors/spray.

Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.

Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell.

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

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Name	Product identifier	%	GHS US classification
Crystalline silica	(CAS-No.) 14808-60-7	8.9 – 14.65	Carc. 1A, H350 STOT RE 1, H372
Silicon carbide	(CAS-No.) 409-21-2	2 – 6	Carc. 1B, H350
Zirconium oxide	(CAS-No.) 1314-23-4	1.8 – 5.85	Acute Tox. 4 (Inhalation:dust,mist), H332
Adipic acid, dimethyl ester	(CAS-No.) 627-93-0	≤ 2.31	Acute Tox. 4 (Dermal), H312
Carbon Black	(CAS-No.) 1333-86-4	1 – 2	Carc. 2, H351
Titanium dioxide	(CAS-No.) 13463-67-7	0.15 - 0.734	Carc. 2, H351

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 effects (acute and delayed)

#### 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

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

# 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/vapors/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.

#### 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.

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#### 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/vapors/spray.

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.

#### 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

KleenKast™ LPF	
No additional information available	
Zirconium oxide (1314-23-4)	
USA - ACGIH - Occupational Exposure Limit	ts
ACGIH TWA (mg/m³)	5 mg/m³
ACGIH STEL (mg/m³)	10 mg/m³
Carbon Black (1333-86-4)	
USA - ACGIH - Occupational Exposure Limit	ts
Local name	Carbon black
ACGIH TWA (mg/m³)	3 mg/m³ (Inhalable fraction)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	S
Local name	Carbon black
OSHA PEL (TWA) (mg/m³)	3.5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Titanium dioxide (13463-67-7)	
USA - ACGIH - Occupational Exposure Limit	ts
Local name	Titanium dioxide
ACGIH TWA (mg/m³)	10 mg/m³
Remark (ACGIH)	TLV® Basis: LRT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2020
USA - OSHA - Occupational Exposure Limits	S
Local name	Titanium dioxide (Total dust)
OSHA PEL (TWA) (mg/m³)	15 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Crystalline silica (14808-60-7)	
USA - ACGIH - Occupational Exposure Limit	ts
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 2020
USA - OSHA - Occupational Exposure Limits	S
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

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Silicon carbide (409-21-2)				
USA - ACGIH - Occupational Exposure Limits				
Local name	Silicon carbide			
ACGIH TWA (mg/m³)	3 mg/m³ (Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica) 0.1 fibers/cm³ (Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination) 10 mg/m³ (Inhalable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica)			
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 Limits				
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			
Adipic acid, dimethyl ester (627-93-0)				
No additional information available				

#### 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.

## Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical state : Solid
Appearance : Moist solid.
Color : Black

Odor : Characteristic odour Odor threshold : No data available

pH : 6-7

Melting point : No data available
Freezing point : Not applicable
Boiling point : No data available

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Flash point : Not applicable Relative evaporation rate (butyl acetate=1) : No data available Flammability (solid, gas) Non flammable. : No data available Vapor pressure Relative vapor density at 20 °C : No data available Relative density : 2.3 – 2.4 Solubility : Water: < 0.1 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

VOC content : ≤ 12 %

# 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

> 5000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral)				
> 4.3 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol))				
1.5 mg/l/4h				
> 10000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 28 day(s))				
> 4.6 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Experimental value, Inhalation (dust))				
Titanium dioxide (13463-67-7)				
> 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))				
> 6.82 mg/l (Other, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))				

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LC50 fish 1

EC50 Daphnia 1

ErC50 (algae)

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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)		
Adipic acid, dimethyl ester (627-93-0)			
LD50 oral rat	> 5000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, 14 day(s), Rat, Female, Read-across, Oral)		
LD50 dermal rabbit	> 1000 mg/kg body weight (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal)		
LC50 Inhalation - Rat	> 11 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Read-across, Inhalation (aerosol))		
ATE US (dermal)	1100 mg/kg body weight		
Skin corrosion/irritation	: Not classified pH: 6 – 7		
Serious eye damage/irritation	: Not classified pH: 6 – 7		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: May cause cancer.		
Carbon Black (1333-86-4)			
IARC group	2B - Possibly carcinogenic to humans		
Titanium dioxide (13463-67-7)			
IARC group	2B - Possibly carcinogenic to humans		
Crystalline silica (14808-60-7)			
IARC group	1 - Carcinogenic to humans		
Silicon carbide (409-21-2)			
IARC group	2A - Probably carcinogenic to humans		
Reproductive toxicity	: Not classified		
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		
SECTION 12: Ecological informat	ion		
2.1. Toxicity			
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.		
Zirconium oxide (1314-23-4)			
10-05-1			

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value, GLP)

> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Brachydanio rerio, Static system, Fresh water, Experimental value, Nominal concentration)

> 100 mg/l (EU Method C.2, 48 h, Daphnia magna, Static system, Fresh water, Experimental

> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Read-across, GLP)

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Carbon Black (1333-86-4)			
LC50 fish 1	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Semi-static system, Fresh water, Experimental value, Lethal)		
EC50 Daphnia 1	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)		
ErC50 (algae)	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)		
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)		
Adipic acid, dimethyl ester (627-93-0)			
LC50 fish 1	18 – 24 ppm (EPA OTS 797.1400, 96 h, Pimephales promelas, Static system, Fresh water, Read-across)		
EC50 Daphnia 1	72 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value)		

Zirconium oxide (1314-23-4)				
Persistence and degradability	Biodegradability: not applicable.			
Chemical oxygen demand (COD)	Not applicable (inorganic)			
ThOD	Not applicable (inorganic)			
Carbon Black (1333-86-4)				
Persistence and degradability	Biodegradability in soil: not applicable. 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)			
Crystalline silica (14808-60-7)				
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			
Adipic acid, dimethyl ester (627-93-0)				
Persistence and degradability	Readily biodegradable in water.			
ThOD	1.747 g O₂/g substance			

#### 12.3. **Bioaccumulative potential**

Zirconium oxide (1314-23-4)			
BCF other aquatic organisms 1 0.64 (24 h, Chlorella sp., Fresh water, Read-across, Fresh weight)			
Bioaccumulative potential Low potential for bioaccumulation (BCF < 500).			
Carbon Black (1333-86-4)			
Bioaccumulative potential	Not bioaccumulative.		

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Titanium dioxide (13463-67-7)				
Bioaccumulative potential Not bioaccumulative.				
Crystalline silica (14808-60-7)				
Bioaccumulative potential No bioaccumulation data available.				
Silicon carbide (409-21-2)				
Bioaccumulative potential Bioaccumulation: not applicable.				
Adipic acid, dimethyl ester (627-93-0)				
Partition coefficient n-octanol/water (Log Pow)  1.4 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, °C)				
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).			

# 12.4. Mobility in soil

Zirconium oxide (1314-23-4)				
Surface tension	Not applicable (solid)			
Ecology - soil	No (test)data on mobility of the substance available.			
Carbon Black (1333-86-4)				
Surface tension	Not applicable (solid)			
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.			
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.			
Adipic acid, dimethyl ester (627-93-0)				
Ecology - 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

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#### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

#### KleenKast™ LPF

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Alumina	CAS-No. 1344-28-1	25.2 – 37.19%
Benzo(ghi)perylene	CAS-No. 191-24-2	≤ 0.002%
Benzo(j)fluoranthene	CAS-No. 205-82-3	≤ 0.005%
Chrysene	CAS-No. 218-01-9	≤ 0.004%
Chrysene, 5-methyl-	CAS-No. 3697-24-3	≤ 0.01%
Benzo(a)pyrene	CAS-No. 50-32-8	≤ 0.004%
Benz(a)anthracene	CAS-No. 56-55-3	≤ 0.004%

#### 15.2. International regulations

#### **CANADA**

#### Zirconium oxide (1314-23-4)

Listed on the Canadian DSL (Domestic Substances List)

# Carbon Black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

#### Titanium dioxide (13463-67-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Crystalline silica (14808-60-7)

Listed on the Canadian DSL (Domestic Substances List)

#### Silicon carbide (409-21-2)

Listed on the Canadian DSL (Domestic Substances List)

### Adipic acid, dimethyl ester (627-93-0)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

#### **National regulations**

# Carbon Black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

# Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer)

#### 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

Carbon Black (1333-86-4)					
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		

Component	State or local regulations
Zirconium oxide(1314-23-4)	U.S Massachusetts - Right To Know List

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Component	State or local regulations
Carbon Black(1333-86-4)	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
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
Crystalline silica(14808-60-7)	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 Massachusetts - Right To Know List; 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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#### Full text of H-phrases:

H312	Harmful in contact with skin
H332	Harmful if inhaled
H350	May cause cancer
H351	Suspected of causing 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.

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