

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 7/13/2023

### **SECTION 1: Identification**

### 1.1. Identification

Product form Trade name Product code

: Mixture : MO 34 CRM : 429100

### 1.2. Recommended use and restrictions on use

No additional information available

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

### **GHS US classification**

Corrosive to metals Category 1	H290	May be corrosive to metals
Skin corrosion/irritation Category 1	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Carcinogenicity Category 1A	H350	May cause cancer
Specific target organ toxicity (repeated exposure) Category 1	H372	Causes damage to organs through prolonged or repeated
		exposure

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)



- : Danger
  - : H290 May be corrosive to metals
    - H314 Causes severe skin burns and eye damage
    - H317 May cause an allergic skin reaction
    - H318 Causes serious eye damage
    - H350 May cause cancer
    - H372 Causes damage to organs through prolonged or repeated exposure
  - : P201 Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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P234 - Keep only in original container.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264 Wash hands, forearms and face thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.

P302+P352 - If on skin: Wash with plenty of water.

P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P310 - Immediately call a poison center or doctor.

P314 - Get medical advice/attention if you feel unwell.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P390 - Absorb spillage to prevent material-damage.

P406 - Store in corrosive resistant container with a resistant inner liner.

P501 - 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)

No additional information available

### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phosphoric acid	CAS-No.: 7664-38-2	10.2 – 12.35	Met. Corr. 1, H290 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1, H314 Eye Dam. 1, H318
Chromium(III) oxide	CAS-No.: 1308-38-9	7.96 – 8.4575	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 Skin Sens. 1, H317
Crystalline silica	CAS-No.: 14808-60-7	0.459 – 1.05	Carc. 1A, H350 STOT RE 1, H372
Titanium dioxide	CAS-No.: 13463-67-7	0.09 – 0.5	Carc. 2, H351

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

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SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact	<ul> <li>Call a physician immediately.</li> <li>Remove person to fresh air and keep comfortable for breathing.</li> <li>Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.</li> </ul>
First-aid measures after eye contact First-aid measures after ingestion	<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> <li>Rinse mouth. Do not induce vomiting. Call a physician immediately.</li> </ul>
4.2. Most important symptoms and effe	ects (acute and delayed)
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul><li>Burns. May cause an allergic skin reaction.</li><li>Serious damage to eyes.</li><li>Burns.</li></ul>

### 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 chen	nical	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Special protective equipment and prec	autions 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	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. Notif	fy authorities if product enters sewers or public waters.		
6.3. Methods and material for co	ontainment 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 Hygiene measures	<ul> <li>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. Avoid contact with skin and eyes.</li> <li>Separate working clothes from town clothes. Launder separately. Wash contaminated clothing</li> </ul>
7.2. Conditions for safe storage, inclu	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.
Storage conditions	: Store in corrosive resistant container with a resistant inner liner. Keep only in original container.
Incompatible materials	Store in a well-ventilated place. Keep cool. : Metals.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

MO 34 CRM	
No additional information available	
Phosphoric acid (7664-38-2)	
USA - ACGIH - Occupational Exposure Limit	ts
Local name	Phosphoric acid
ACGIH OEL TWA	1 mg/m³
ACGIH OEL STEL	3 mg/m <sup>3</sup>
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	S S
Local name	Phosphoric acid
OSHA PEL (TWA) [1]	1 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 OEL TWA	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 2023
USA - OSHA - Occupational Exposure Limits	S .
Local name	Quartz (Respirable) (Silica: Crystalline)

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Crystalline silica (14808-60-7)	
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
Titanium dioxide (13463-67-7)	
USA - ACGIH - Occupational Exposure Limit	ts
Local name	Titanium dioxide
ACGIH OEL TWA	0.2 mg/m <sup>3</sup> (Respirable fraction) 2.5 mg/m <sup>3</sup> (Respirable fraction)
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	s
Local name	Titanium dioxide (Total dust)
OSHA PEL (TWA) [1]	15 mg/m <sup>3</sup>
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Chromium(III) oxide (1308-38-9)	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls Environmental exposure controls	<ul><li>Ensure good ventilation of the work station.</li><li>Avoid release to the environment.</li></ul>
8.3. Individual protection measures/Per	sonal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
[In case of inadequate ventilation] wear respirat	tory protection.
Personal protective equipment symbol(s):	

### Personal protective equipment symbol(s):



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#### **SECTION 9: Physical and chemical properties** 9.1. Information on basic physical and chemical properties Physical state : Solid Color Mixture contains one or more component(s) which have the following colour(s): White Colourless to white Off-white to light grey Pure substance: white Unpurified: coloured Green On exposure to heat: turns brown Colourless or white Odor There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: 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 Flammability (solid, gas) Non flammable. Vapor pressure : No data available Relative vapor density at 20°C : No data available Relative density $\cdot 3 - 32$ 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 Not applicable • 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

: 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

metals.

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### 10.6. Hazardous decomposition products

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

11.1. Information on toxicological e	offects
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
Phosphoric acid (7664-38-2)	
LD50 oral rat	2600 mg/kg body weight (Equivalent or similar to OECD 423, Rat, Female, Experimental valu 10 % aqueous solution, Oral, 7 day(s))
LD50 dermal rabbit	2740 mg/kg body weight (Rabbit, Experimental value, Skin)
LC50 Inhalation - Rat	0.96 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male, Read-across, Converted value, Inhalation, 14 day(s))
ATE US (oral)	2600 mg/kg body weight
ATE US (dermal)	2740 mg/kg body weight
ATE US (vapors)	0.96 mg/l/4h
ATE US (dust, mist)	0.96 mg/l/4h
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 2000 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))
Chromium(III) oxide (1308-38-9)	
LD50 oral rat	> 5000 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LC50 Inhalation - Rat	> 5.41 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))
Skin corrosion/irritation	: Causes severe skin burns.
Phosphoric acid (7664-38-2)	
pH	1.5
Crystalline silica (14808-60-7)	
pH	6 – 7
Titanium dioxide (13463-67-7)	
рН	7 (aqueous suspension, 10 %)
Chromium(III) oxide (1308-38-9)	
pH	No data available in the literature
Serious eye damage/irritation	: Causes serious eye damage.

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Crystalline silica (14808-60-7)		
рН	6 - 7	
Titanium dioxide (13463-67-7)		
pH	7 (aqueous suspension, 10 %)	
Chromium(III) oxide (1308-38-9)		
рН	No data available in the literature	
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	
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 :	Not applicable	
Phosphoric acid (7664-38-2)		
Viscosity, kinematic	Not applicable (solid)	
Crystalline silica (14808-60-7)		
Viscosity, kinematic	Not applicable (solid)	
Titanium dioxide (13463-67-7)		
Viscosity, kinematic	Not applicable	
Chromium(III) oxide (1308-38-9)		
Viscosity, kinematic	Not applicable (solid)	
Symptoms/effects after skin contact :	: Burns. May cause an allergic skin reaction.	
ymptoms/effects after eye contact : Serious damage to eyes.		
Symptoms/effects after ingestion :	Burns.	

## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.	
Phosphoric acid (7664-38-2)		
LC50 - Fish [1]	75.1 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oryzias latipes, Static system, Fresh water, Experimental value, Lethal)	
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)	

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Phosphoric acid (7664-38-2)	
EC50 72h - Algae [1]	> 100 mg/l (EU Method C.3, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
Titanium dioxide (13463-67-7)	
LC50 - Fish [1]	> 300 mg/l (Danio rerio, Fresh water, Literature study, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
Chromium(III) oxide (1308-38-9)	
LC50 - Fish [1]	> 10000 mg/l (ISO 7346-1, 96 h, Danio rerio, Static system, Fresh water, Experimental value, GLP)
12.2. Persistence and degradability	
Phosphoric acid (7664-38-2)	
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)
Titanium dioxide (13463-67-7)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
Chromium(III) oxide (1308-38-9)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)
12.3. Bioaccumulative potential	
Phosphoric acid (7664-38-2)	
Bioaccumulative potential	Not bioaccumulative.
Crystalline silica (14808-60-7)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Titanium dioxide (13463-67-7)	
Bioaccumulative potential	Not bioaccumulative.
Chromium(III) oxide (1308-38-9)	
Bioaccumulative potential	Not bioaccumulative.

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12.4. Mobility in soil		
Phosphoric acid (7664-38-2)		
Surface tension	Not applicable (solid)	
Ecology - soil	No (test)data on mobility of the substance available.	
Crystalline silica (14808-60-7)		
Ecology - soil	No (test)data on mobility of the substance available.	
Titanium dioxide (13463-67-7)		
Surface tension	No data available in the literature	
Ecology - soil	Low potential for mobility in soil.	
Chromium(III) oxide (1308-38-9)		
Surface tension	No data available in the literature	
Ecology - soil	Adsorbs into the soil.	

### 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.

### SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

14.2. UN proper shipping name		
Proper Shipping Name (DOT) Proper Shipping Name (TDG) Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
14.3. Transport hazard class(es)		
<b>DOT</b> Transport hazard class(es) (DOT)	: Not applicable	
<b>TDG</b> Transport hazard class(es) (TDG)	: Not applicable	
IMDG Transport hazard class(es) (IMDG)	: Not applicable	
IATA Transport hazard class(es) (IATA)	: Not applicable	

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### 14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (TDG)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

### 14.5. Environmental hazards

Other information

: No supplementary information available.

### 14.6. Special precautions for user

DOT

No data available

**TDG** No data available

#### IMDG

No data available

#### ΙΑΤΑ

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

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

Phosphoric acid (7664-38-2)		
CERCLA RQ	5000 lb	
15.2. International regulations		
CANADA		

## Phosphoric acid (7664-38-2)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

### Chromium(III) oxide (1308-38-9)

Listed on the Canadian DSL (Domestic Substances List)

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#### **EU-Regulations**

No additional information available

### 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)

### 15.3. US State regulations

Component	State or local regulations
Phosphoric acid(7664-38-2)	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 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
Chromium(III) oxide(1308-38-9)	U.S New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

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Full text of H-phrases	
H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H320	Causes eye irritation
H331	Toxic if inhaled
H350	May cause cancer
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure

Reno Safety Data Sheet (SDS), USA

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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.