

Website

### SAFETY DATA SHEET

1. Identification

Product identifierFedmor Ladle TPRecommended useFor Industrial Use Only

**Recommended restrictions** Users should be informed of the potential presence of

respirable dust and respirable crystalline silica as well as their potential hazards. Appropriate training in the proper use and handling of this material should be provided as

required under applicable regulations.

### Manufacturer/Supplier information

Company name: FRC Global

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Product Support/Technical Services

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### 2. Hazard(s) identification

Physical hazards Not classified.
Heath hazards Carcinogenicity

Acute Toxicity (Oral) Category 4
Eye Irritation Category 2
Target organ toxicity Category 2

(lungs through cutting or tearing from inhalation)

Environmental hazards Not classified. Not classified.

Label elements This material is a skin and eye irritant. Respirable

crystalline silica may be present at the end of the product

Category 1A

lifecycle and is suspected of causing cancer.



Signal word Danger

Hazard Statement 0462B6PD: May cause lung cancer (inhalation).

H302: Harmful if swallowed.

H315 + H320: Causes skin and eye irritation.

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Precautionary statement

**Prevention** P270: Do not eat, drink, or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye

protection/face protection.

Response P301+P330+P331: If swallowed: Rinse mouth. Do not

include vomiting.

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and

easy to do. Continue rinsing.

P264: Wash thoroughly after handling. If concerned: Get medical advice/attention.

Storage Store locked up.

**Disposal** Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise Classified (HNOC)

None Known.

Supplemental information Users should be informed of the potential presence of

respirable dust and respirable crystalline silica as well as their potential hazards. Overexposure to the respirable dust of crystalline silica (quartz or cristobalite, less than or equal to 5 microns in size) may lead to silicosis in humans,

which is a progressive and irreversible lung disease.

Appropriate training in the proper use and handling of this material should be provided as required under applicable

regulations.

# 3. Composition/information on ingredients

Chemical Name	Common Name/Synonyms	CAS Number	%
Aluminum Oxide (Non-Fibrous)		1344-28-1	*
Kaolin		1332-58-7	*
Aluminum (stabilized)		7429-90-5	*
Silica, Crystalline	Quartz	14808-60-7	*
Proprietary Surfactant		Proprietary	*
Refractories, Fibers,		142844-00-6	*
Aluminosilicate			

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

**Inhalation** Move to fresh air. Seek medical attention if breathing

becomes irregular or become unconscious.

**Skin contact** Wash with soap and water. Get medical attention if

irritation develops or persists.

**Eye contact** Immediately flush your eyes with plenty of water. Get

medical attention if irritation persists.

**Ingestion** Get immediate medical attention. Do not induce vomiting

unless instructed to do so by the poison center or

physician.

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Most important symptoms/effects, acute and delayed

Dust may irritate the respiratory tract, skin, and eyes.

Coughing.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep the victim under observation.

Symptoms may be delayed.

Signs and symptoms of overexposure

Eyes: Redness and/or tearing. Skin: Redness and/or itching

**General information** If concerned: Get medical advice. Ensure that medical

personnel are aware of the material(s) involved and take

precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Carbon Dioxide, Dry Chemical, Foam, and Water. Fog. Use

fire-extinguishing media appropriate for surrounding

materials.

Unsuitable extinguishing media

Not available.

Specific hazards arising from the chemical

Not available.

Special protective equipment and precautions for firefighters

Wear full protective clothing and a NIOSH-approved selfcontained breathing apparatus with a full facepiece operated in the pressure demanded or other positive pressure mode. Do not use a water stream as flame may

scatter.

Special Remarks on Fire Hazards

Hazardous combustion products: Carbon Monoxide,

Carbon Dioxide, Hydrocarbons

6. Accidental release measures

General procedures Sweep up debris and dispose of in accordance with local

regulations. Dust can be dampened with water for containment. Personal protective equipment is

recommended.

7. Handling and storage

Precautions for safe handling Obtain special instructions before use. Do not handle until

all safety precautions have been read and understood.
Minimize dust generation and accumulation. Provide
appropriate exhaust ventilation at places where dust is
formed. Do not breathe dust. Do not breathe dust. Avoid
prolonged exposure. Should be handled in closed systems,

if possible. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices.

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### Conditions for safe storage, including any incompatibilities

Store in a cool, dry place. Material may become

excessively soft when heated or stored in an unusually

warm area.

**Storage temperature** (40°F) Minimum to (120°) Maximum.

## 8. Exposure controls/personal protection

Occupational exposure limits

US OSHA Hazardous Components (29 CFR 1910.1200)

Components	Туре	Value	Form
Aluminum Oxide	OSHA PEL TWA	5 mg/m3	Respirable dust
(CAS 1344-28-1)	ACGIH TLV	1 mg/m3	Respirable dust
	TWA		
Kaolin	OSHA PEL TWA	15T 5R	
(CAS 1332-58-7)	ACGIH TLV	2E, R	
	TWA		
Aluminum (stabilized)	OSHA PEL TWA	15T 5R	Respirable dust
(CAS 7429-90-5)	ACGIH TLV	1	Respirable dust
	TWA		
Silica, Crystalline	OSHA PEL TWA	5 mg/m3	
(CAS 14808-60-7)	ACGIH TLV	(%SiO2+2)	
	TWA	0.025 mg/m3	

### US OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Quartz (SiO2)	TWA	0.3 mg/m3	Total dust.
(CAS 14808-60-7)		0.1 mg/m3	Respirable.
		2.4 mppcf	Respirable.

### **US ACGIH Threshold Limit Values**

Components	Type	Value	Form
Aluminum Oxide (Non-Fibrous)	TWA	1 mg/m3	Respirable fraction
(CAS 1344-28-1)			
Ouartz (SiO2)	Τ\Λ/Λ	$0.025  \text{mg/m}^{2}$	Despirable fraction

Quartz (SiO2)	TWA	0.025 mg/m3	Respirable fraction
(CAS 14808-60-7)			

#### US NIOSH: Pocket Guide to Chemical Hazards

Quartz (SiO2) TWA 0.05 mg/m	
14808-60-7	3 Respirable dust

ingredient(s).

Appropriate engineering controls

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Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and an emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Skin protection

Safety glasses

Hand protection Respiratory protection

Protective gloves such as latex, nitrile, or terry cloth. Use a NIOSH/MSHA-approved respirator if used in a closed environment where ventilation is not adequate. Long-sleeve shirt or other covering is recommended.

Protective clothing







**General Hygiene Considerations** 

Always adhere to general workplace hygienic practices including washing before eating or smoking.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid. Dense Fibrous Mastic.

Form Solid.
Color Black.
Odor Pine

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Boiling point None.

Flash point Not available.

**Evaporation rate** None.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower (%)

Not available.

Flammability limit - upper (%)

Not available.

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure > 1

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Vapor density > 1 Air = 1.0
Relative density Not available.

Solubility(ies)

Solubility (water) None expected

Partition coefficient (n-octanol/water)

Not available. Not available. Not available. Not available.

Viscosity Not available Specific gravity 2.11 at (72°F)

## 10. Stability and reactivity

Auto-ignition temperature Decomposition temperature

Hazardous polymerization None.

**Chemical stability** Stable under ordinary conditions of use and storage.

Possibility of hazardous reactions

No dangerous reaction is known under conditions of

normal use.

Conditions to avoid

Contact with incompatible materials. Refractories containing crystalline silica may, after service, contain more or less crystalline silica. Care must be taken to avoid and/or control dust from demolition. If in doubt of the proper protection, seek advice from a safety professional. The organic binder in this product falls into a class known as phenolic resin. Refractory products using this type of binder are supplied in two forms, (1) shaped products such as brick and (2) monolithics such as refractory plastics and rams. The hazards associated with phenolic resin are different in the two forms. For pre-cured shapes (brick), the binder has been reacted or polymerized by heat to its solid form before shipment. On decomposition by heating, where there is sufficient air and heating rate, the gaseous products are mostly carbon dioxide and water. Under low or limited oxygen supply, decomposition products during heat-up and early service may include phenol, as well as aromatic and/or aliphatic derivatives. After a campaign in service, this refractory product should be completely coked and, in that condition, the material for disposal would be carbon and an inorganic oxide. During field installation of non-cured unshaped products (monolithics), there is a possibility of exposure to trace amounts of phenol by skin contact and inhalation. After the product has been heated to high temperatures in service, it will have similar decomposition characteristics to pre-cured shapes.

Incompatible materials

Acids, strong oxidizing agents, chlorine.

Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to

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industrial application exposure. Contact your sales representative for clarification.

Hazardous decomposition products

Carbon monoxide, carbon dioxide, smoke

## 11. Toxicological information

Information on likely routes of exposure

Inhalation Dust may irritate the respiratory system. Prolonged

inhalation may be harmful.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical, and toxicological characteristics:

Dust may irritate the respiratory tract, skin, and eyes.

Coughing.

Information on toxicological effects

Acute toxicity Oral LD<sub>50</sub>: 1310 mg/kg (Rat) (Proprietary Surfactant)

> Notes: Acute oral toxicity is from the surfactant only (approx. 1.8% total concentration of this product)

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with the eyes may cause temporary

irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data is available to indicate product, or any

components present at greater than 0.1% are mutagenic or

genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, in making the overall evaluation, IARC noted that

"carcinogenicity was not detected in all industrial

circumstances studied. Carcinogenicity may be dependent

on inherent characteristics of the crystalline silica or external factors affecting its biological activity or

distribution of its polymorphs." (IARC Monographs on the

evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust, and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of

lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to

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silica dust in quarries and in the ceramic industry).

Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003)

According to the current state of the art, worker

protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure

limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be

monitored and controlled.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (SiO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

US National Toxicology Program (NTP) Report on Carcinogens

Quartz (SiO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

0

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity**This product is not expected to cause reproductive or

developmental effects.

**Developmental effects** 

Quartz (SiO2) 0

Developmental effects - EU category

Quartz (SiO2)

Embryotoxicity

Quartz (SiO2) 0

Reproductively

Quartz (SiO2) 0

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. Prolonged exposure

may cause chronic effects.

# 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on

the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bio-accumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone

depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are

expected from this component.

# 13. Disposal considerations

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Disposal instructions This product, in its present state, when discarded or

> disposed of, is not hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose of in accordance to

local sanitary regulations.

Hazardous waste code Not applicable.

Waste from residues / unused products

Not available.

Not available. Contaminated packaging

## 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

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

Not applicable.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the

OSHA Hazard Communication Standard. 29 CFR 1910.1200.

One or more components are not listed on TSCA.

All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Chemical

No

SARA 313 (TRI reporting)

Chemical Name CAS number % by wt.

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Aluminum Oxide (Non-Fibrous) 1344-28-1

### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not Regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR

68.130) Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

#### US state regulations

US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US Massachusetts RTK - Substance List

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

Quartz (SiO2) (CAS 14808-60-7) ZIRCONIUM DIOXIDE (CAS 1314-23-4)

US New Jersey Worker and Community Right-to-Know Act

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

Quartz (SiO2) (CAS 14808-60-7)

US Pennsylvania Worker and Community Right-to-Know Law

Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

Quartz (SiO2) (CAS 14808-60-7)

US Rhode Island RTK Aluminum Oxide (Non-Fibrous) (CAS 1344-28-1)

US California Proposition 65

This product contains a chemical known to the State of

California to cause cancer.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz (SiO2) (CAS 14808-60-7) Listed: October 1, 1988

# 16. Other information, including date of preparation or last revision

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

Prepared by: FRC Global Date: May, 2022

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# End of Safety Data Sheet

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