

# **Safety Data Sheet**

Product Number: 53202

Manufacturers Code I.D.: 53202

Chemical/Mineral Family: Alumino Silicate

#### **SECTION 1 - MATERIAL IDENTIFICATION**

## Trade Name and Synonyms: Redline Rapid Floor Patch

$Al_2O_3$	46.23	%	SiO <sub>2</sub> <sup>-</sup> 42.27	%	

Chemical Name and Synonyms: High Temperature Cement

Recommended Use: Refractory/Construction/maintainence/repair material

Supplier:Plibrico Company, LLC - 1935 Techny Road - Unit 16, Northbrook, IL 60062Phone 312-337-9000, Fax 312-337-9003, www.plibrico.com

Manufacturer: Plibrico Company, LLC - 1935 Techny Road, Unit 16, Northbrook, IL 60062 Phone 312-337-9000, Fax 312-337-9003, www.plibrico.com

Contact Person: Safety Manager, safety@plibrico.com EMERGENCY PHONE: 312-981-2869

## **SECTION 2- HAZARDOUS IDENTIFICATION**





Signal Word: Danger

Hazard statement: H315: Causes skin irritation,

itation, H320: Causes eye irritation

H335: May cause respiratory irritation H351: Suspected of causing cancer H373: May cause damage to lung through prolonged or repeated inhalation.

#### This product contains crystalline silica, a substance that has been listed by:

- ▼ 1. IARC: sufficient evidence for the carcinogenicity of crystalline silica to humans. (Group 1)
- 2. Canadian WHMIS : D2A Materials Causing Other Toxic Effects
- ▼ 3. ACGIH: A2-Suspected Human Carcinogen.
- **4**. NTP: a substance known to be a human carcinogen.
- Special Notes: \*\*\* Greater amounts of Quartz and Cristobalite may be formed after firing. Major portion of the crystalline silica present in the product as manufactured is not fine enough to normally be considered respirable.

#### **Precautionary Statements:**

- P260+P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear eye protection/face protection
- P285 Wear respiratory protection
- P305+P351+P338 If in eyes: Rinse cautiously with water.
- P302+P352 If on skin: Wash with plenty of soap and water.
- P501- Dispose of material in accordance with local regulation.

#### Primary Route of Entry: Inhalation, Ingestion, Skin Contact

Target Organs: respiratory tract (nose & throat), eyes, skin

#### **Potential Health Effects:**

Eyes: May cause irritation. Abrasive action of dust can damage eye.

Skin: May cause irritation

**Ingestion:** May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting, abdominal pain and diarrhea. **Inhalation:** Effects of overexposure:

1. Acute: Exposure to nuisance dust may cause temporary irritation or discomfort to skin, eyes, nose, throat or lungs and may aggravate bronchial disorders.

2. Chronic: Long term inhalation of respirable quartz, cristobalite, fused silica and/or amorphous silica may cause silicosis (delayed lung injury) and other respiratory disorders. In addition there is sufficient evidence for the carcinogenicity of crystalline silica to humans.

## HMIS Rating Health \* 1 Flammability 0 Physical Hazard 0 Personal Protection E



Trade Name and Synonyms: Redline Rapid Floor Patch

SECTION 3- HAZARDOUS INGREDIENTS

Ingredients (checked)	C.A.S. No.	Weight %	TLV ACGIH mg/m <sup>3</sup>	OSHA PEL mg/m <sup>3</sup>	EINECS
X Quartz***	14808-60-7	8 - 12	0.025(resp.dust)	0.05 mg/m <sup>3</sup> TWA	238-878-4
X Cristobalite***	14464-46-1	8 - 12	0.025(resp.dust)	0.05 mg/m <sup>3</sup> TWA	238-455-4
X Amorphous Silica***	69012-64-2	0 - 4	0.025(resp.dust)	15(total), 5(resp.)	273-761-1
Fused Silica***	60676-86-0		0.025(resp. dust)	80 mg/m <sup>3</sup> /%SiO 2	262-373-8
Zirconium Silicate***	14940-68-2		10	15(total), 5(resp.)	239-019-6
Aluminum Phosphate	13530-50-2	-	2 mg/m <sup>3</sup> TWA(as Al)	2 mg/m <sup>3</sup> TWA(as Al)	236-875-2
Alumina	1344-28-1	-	1(resp.dust)	15(total), 5(resp.)	215-691-6
X Aluminosilicate(Mullite)	1302-93-8	67 - 77	2(resp.dust)	15(total), 5(resp.)	215-113-2
Aluminosilicate(Kyanite)	1302-76-7	4.9 - 14.	2(resp.dust)	15(total), 5(resp.)	215-106-4
Bauxite	1318-16-7	4.9 - 14.	10	15(total), 5(resp.)	
Silicon Carbide	409-21-2	-	10	15(total), 5(resp.)	206-991-8
Pyrophyllite	12269-78-2	-	10	15(total), 5(resp.)	
Spinel	1302-67-6	-	10	15(total), 5(resp.)	215-105-9
Andalusite	12183-80-1	-	10	15(total), 5(resp.)	235-352-6
Zirconiumdioxide	1314-23-4	-	10	15(total), 5(resp.)	215-227-2
Calcium Aluminate Cement	65997-16-2	5.4 - 15.	10	15(total), 5(resp.)	266-045-5
Calcium Silicate Cement	65997-15-1	-	10	15(total), 5(resp.)	266-043-4
X Clay	1332-58-7	1 - 8	2(resp.dust)	15(total), 5(resp.)	265-064-6
Aluminum Sulfate	10043-01-3	-	2(resp.dust)	15(total), 5(resp.)	233-135-0
Barium Sulfate	772-74-37	-	10	10(total), 5(resp.)	231-784-4
Bentonite	1302-78-9	-	10	15(total), 5(resp.)	215-108-5
Perlite	93763-70-3	-	10	15(total), 5(resp.)	310-127-6
Sodium Silicate	1344-09-8	-	10	15(total), 5(resp.)	215-687-4
X Titanium Oxide	13463-67-7	0 - 2	10	15(total), 5(resp.)	215-280-1
X Calcium Fluoride	7789-75-5	1 - 5	2.5 as F	2.5 as F	232-188-7
X Organic Fiber X Sodium Hydroxide X polyphosphoric acids,	9003-07-0 1310-73-2 68915-31-1	0.05 - 0.5 < 1 < 5	10(total), 3(resp.) 2 (Ceiling) 3 (resp. dust)	15(total), 5(resp.) 2 TWA 15(total), 5(resp.)	215-185-5 272-808-3
Sodium salts X Potasium Phosphate	7778-77-0	3 - 12	N/A	N/A	231-913-4
X Potasium Phosphate X Magnesium Phosphate X Magnesium Oxide	7757-87-1 1309-48-4	5 – 14 1 – 9	N/A 10	N/A 15(total), 5(resp.)	231-824-0 215-171-9

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## **SECTION 4- FIRST AID MEASURES**

Eyes: Immediately flush eyes with plenty of water and get medical attention.

Skin: Wash with soap and water. Get medical attention if irritation develops or persists.

Ingestion: If swallowed, seek medical attention.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get immediate attention.

If symptoms persist, seek medical attention.

#### **SECTION 5- FIRE FIGHTING MEASURES**

**Unusual Fire and Explosive Hazards:** The product will not burn. Improper mixing and bake-out of materials may result in steam spalling during initial heating. Refer to mixing instructions and bake-out schedules for proper procedures.

Fire Fighting Equipment: Fire fighters should wear full protective gear and self-contained breathing apparatus-SCBA.

#### SECTION 6- ACCIDENTAL RELEASE MEASURES

**Steps to be taken in case material is released or spilled:** Wear protective clothing as described in Section 8 of this sheet. Use routine housekeeping procedures, avoid dusting, collect material in closed containers or bags.

**Waste Disposal Method:** According to the EPA (40CFR 261.3) wastes are not hazardous wastes. Wastes may be disposed of in a landfill, however, in accordance with federal, state, and local regulations.

#### **SECTION 7 - HANDLING AND STORAGE**

To ensure product quality, store material in a dry place. Minimize dust generation and avoid inhalation and contact with refractory dusts during processing, installation, maintenance and tear-out. After handling of refractory dusts from processing, installation, maintenance or tear-out, wash exposed skin areas thoroughly. Wash clothing contaminated with dusts.

#### **SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION**

Ventilation: Local and Mechanical: follow OSHA STD 29 CFR 1910.94.

Respiratory Protection: Good ventilation should be provided if dust is created when working with materials. Used material, which is being removed, should be dampend to reduce dust. In addition, when dust is present, workers should employ repirator protection. Recommended: NIOSH approved respirator for dusts and mists, including silica, in compliance with OSHA STD 29.CFR1910.134.

Protection Gloves: Protective gloves recommended.

Eye Protection: Safety glasses/goggles.

Other Protective Equipment: As required to meet applicable OSHA standards. Note: See Section 3 for occupational exposure limit values.

#### **SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES**

Appearance, Color & Odour: Granular aggregate & fine solid mix, brown or grey in color, earthly smell

Solubility in Water: Negligible

Alkaline pH:

Boiling Point (o): N/A

2500F / 1371C Melting Point (o):

2.1

Specific Gravity:

#### SECTION 10- STABILITY AND REACTIVITY DATA

Stability: Stable

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Hazardous Polymerization: May not occur

Materials to avoid: N/A Incompatibility:

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Evaporation Rate: Not applicable

% Volatile by Weight: Not applicable

Hazardous Decomposition: N/A

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

Effects of overexposure:

- 1. Acute: Exposure to nuisance dust may cause temporary irritation or discomfort to skin, eyes, nose, throat or lungs and may aggravate bronchial disorders.
- 2. Chronic: Long term inhalation of respirable quartz, cristobalite, fused silica and/or amorphous silica may cause silicosis (delayed lung injury) and other respiratory disorders.
- ~ 3. Prolonged contact with skin may cause irritation.

For crystalline silica (quartz /cristobalite):

CARCINOGENICITY: Product contains crystalline silica which may cause delayed respiratory disease (silicosis) if inhaled over a prolonged period of time. IARC concludes that "there is a sufficient evidence for the carcinogenicity of crystalline silica to humans." (Group 1).

For aluminum silicate: Aluminum silicate minerals have been found to cause lung fibrosis in the absence of crystalline silica.

# **SECTION 12 - ECOLOGICAL INFORMATION**

No ecological concerns have been identified.

Not applicable for as-manufactured refractory product. Dusts of as-manufactured refractory product have a low order of aquatic toxicity (rating TLm96: over 1000 ppm), are insoluble, and are not very mobile. Based upon this information, it is not believed to be a significant threat to the environment if accidentally released on land or into water. However, dusts generated during maintenance and tear-out operations may be contaminated with other hazardous substances (e.g. metal). Evaluation of dusts from specific processes should be performed by a qualified environmental professional to determine if an environmental threat exists in the case

# **SECTION 13 - DISPOSAL CONSIDERATIONS**

Waste Disposal Method: According to the EPA (40CFR261.3) wastes are not hazardous wastes. Wastes may be disposed of in a landfill, however, in accordance with federal, state, and local regulations. However, dusts generated during maintenance and tear-out operations may be contaminated with other hazardous substances (e.g. metals). Therefore, appropriate waste analysis may be necessary to determine proper disposal. Waste characterization and disposal/treatment methods should be determined by a qualified environmental professional in accordance with applicable federal, state and local regulations.



#### **SECTION 14 - TRANSPORT INFORMATION**

Canadian Transportation of Dangerous Goods Regulation: Hazard Class & PIN: Not Regulated DOT Proper Shipping Name (29 CFR 172.101): Not regulated DOT Hazard Class (29 CFR 172.101): Not regulated UN/NA Code (49 CFR 172.101): Not applicable DOT Labels Required (49 CFR 172.101): Not applicable DOT Placards Required (49 CFR 172.504): Not applicable Not regulated Land Transport ADR/RID (cross-border): Maritime Transport IMDG : Not regulated Air Transport ICAO-TI and IATA-DGR: Not regulated

#### **SECTION 15 - REGULATORY INFORMATION**

CANADIAN WHMIS: D2A

CANADIAN EPA: Components of this product are listed on the Domestic Substance List (DSL). U.S. FEDERAL REGULATIONS: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). SARA TITLE III: EPCRA Section 302 (EHSs): This product does not contain ingredients subject to reporting requirements of 40 CFR Part 355, Appendices A and B (Extremely Hazardous Substances). CERCLA Section 304: This product does not contain ingredients subject to state and local reporting under Section 304 of SARA Title III as listed in 40 CFR Part 302, Table 302.4 SECTION 311/312 HAZARD CATEGORIES: Product (airborne particulates) is categorized as an immediate (acute) health hazard and a delayed (chronic) health hazard as defined by SARA Title III Section 311/312 (40 CFR 370). SECTION 313 TOXIC CHEMICALS: None TSCA: Components of this product are listed on the TSCA Inventory.

#### **SECTION 16 - OTHER INFORMATION**

Only Trained personel should use this material.

Abbreviations: ACGIH: American Conference of Governmental Industrial Hygienists CAS: Chemical Abstracts Service CERCLA: Comprehensive Environmental Response, Compensation and Liability Act DOT: Department of Transportation EPA: Environmental Protection Agency IARC: International Agency for Research on Cancer NFPA: National Fire Protection Association NIOSH: National Institute for Occupational Safety and Health NTP: National Toxicology Program OSHA: Occupational Safety and Health Administration SARA: Superfund Amendment and Reauthorization Act WHMIS: Workplace Hazardous Materials Information System (Canada)

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