

# EPAVE I

(SR – Resurfacer)

## Safety Data Sheet

(Complies with OSHA 29 CFR 1910.1200)



### SECTION 1 - PRODUCT IDENTIFICATION

ePAVE, LLC 1800 Avenue of Stars #420 Los Angeles, CA 90067	Information email address info@epavellc.com	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>E</td> </tr> </table>	Health	1	Fire	0	Reactivity	0	Personal Protection	E
	Health		1							
Fire	0									
Reactivity	0									
Personal Protection	E									
Revision: May 29, 2019	Emergency Telephone Number (818) 620-3308									
<b>Product Name</b> ePAVE I – Surface I covers Powder, SR Resin and Resin	<b>Product #</b> N/A									



**NFPA 704**

**Product Use:** Cementitious Mortar

### Section 2 – HAZARD IDENTIFICATION

<b>Physical Hazards</b>	Not Classified	
<b>Health Hazards</b>	Skin corrosion / irritation	Category 2
	Serious Eye Damage	Category 1
	Carcinogenicity	Category 1A
	Specific Target Organ Toxicity after Single Exposure	Category 3
	Specific Target Organ Toxicity after Repeated Exposure	Category 1
<b>OSHA defined hazards</b>	Not Classified	

**Hazard Pictogram:**



**Signal Word (GHS-US): DANGER**

**Hazard statement** – Causes skin irritation. Causes serious eye damage. May cause cancer. May cause respiratory irritation. May cause damage to organs (Lungs) through prolonged or repeated exposure.

**Precautionary statement**

**Prevention** - Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Use in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** - If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

**Storage** - Store in dry location. Store away from incompatible materials

**Disposal** - Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise** – None known

**Classified (HNOC)**

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Section 3 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

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Ingredient	CAS No.	Wt. %
<b>POWDER</b>		
Silica Sand, Crystalline	14808-60-7	87-99%
Portland Cement (OPC) - Calcium compounds, calcium silicate compounds, and other calcium compounds containing iron and aluminum make up the majority of this product	65997-15-1	25%
Calcium oxide	1305-78-8	0-trace
Quartz	14808-60-7	-----
Hexavalent chromium	18450-29-9	0-trace
Fly Ash – Calcium Oxide	68131-74-8 1305-78-8	< .16%
Calcium Aluminate Silicates	Various	< 6%
AXILAT™ SA 502 Aluminum oxide	1344-28-1	0.5-1.5%

Ingredient	CAS No.	Wt. %
<b>SR RESIN</b>		
Rovene 6023 Ammonium Hydroxide, ACS	1336-21-6	<0.0687%
Residual monomers	Residual monomers	<0.0687%
Proprietary acrylic polymer	CAS confidential	27-41%
Pi-35 Defoamer – Polyoxyethylene 2,4,7,9-tetramethyl-5-decyne-4,7-diol	9014-85-1	< 0.0075%
Pi-35 Defoamer – 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	0.0003-0.003%
TiO2 Dispersion (68% Solids) Titanium dioxide	13463-67-7	7.65-8.5%
Aluminum hydroxide	21645-51-2	< 0.85%
Silicon dioxide, amorphous	7631-86-9	< 0.85%
<b>RESIN</b>		
Rovene 6023 Ammonium Hydroxide, ACS	1336-21-6	<0.0687%
Residual monomers	Residual monomers	<0.0687%
Proprietary acrylic polymer	CAS confidential	27-41%
Pi-35 Defoamer – Polyoxyethylene 2,4,7,9-tetramethyl-5-	9014-85-1	< 0.0075%
Pi-35 Defoamer – 5-Decyne-4,7-diol, 2,4,7,9-tetramethyl-	126-86-3	0.0003-0.003%
TiO2 Dispersion (68% Solids) Titanium dioxide	13463-67-7	7.65-8.5%
Aluminum hydroxide	21645-51-2	< 0.85%
Silicon dioxide, amorphous	7631-86-9	< 0.85%
Black Dispersion (30%solid)	1333-86-4	4.28-5.13%

The exact percentage (concentration) of composition has been withheld as a trade secret\*

\*\*The SDS for these components is available upon request

**Other Limits:** National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration = mg/M3 (Respirable free silica) as determined by Recommended Standard Occupational Exposure to Crystalline Silica

#### Section 4 – FIRST AID MEASURES

**Eyes:** Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

**Skin:** Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

**Inhalation:** Remove persons to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside.

Inhalation of large amounts of Portland cement requires immediate medical attention.

**Ingestion:** Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

#### Section 5 – FIRE AND EXPLOSION HAZARD DATA

**Flammability:** Noncombustible and not explosive

**Auto-ignition Temperature:** Not Applicable Flash

**Point:** Not Applicable

#### Section 6 – ACCIDENTAL RELEASE MEASURES

If spilled, use dustless methods (vacuum) and place into covered container for disposal (if not contaminated or wet). Use adequate ventilation to keep exposure to airborne contaminants below the exposure limit.

#### Section 7 – PRECAUTIONS FOR SAFE HANDLING AND STORAGE

Do not allow water to contact the product until time of use. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended.

#### Section 8 – EXPOSURE CONTROL MEASURES

Components with limit values that require monitoring at the workplace:

Hazard Components	CAS No.	PEL (OSHA) mg/M3	TLV (ACGIH) mg/M3
Silica Sand, crystalline	14808-60-7	0.1	0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Component 1		5 (resp) 15 (total)	10 (resp)
Fly Ash	68131-74-8	*Components listed below	
Calcium Aluminate Silicates	Various	15 (total)	10 (resp)
Iron Compunds	Various	Varies	Not Available

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Section 8 (CONTINUED) – EXPOSURE CONTROL MEASURES

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Components with limit values that require monitoring at the workplace:

Hazard Components	CAS No.	PEL (OSHA) mg/M3	(ACGIH) mg/M3
Calcium Oxide	1305-78-8	<2% 5	2
Ammonium hydroxide	1336-21-6	35 mg/m3 TWA 25 ppm (18mg/m3)	17 mg/m3. TWA 25 ppm (18mg/m3)
Sodium magnesium	12040-43-6 55	15 mg/m3 Total Dust 5 mg/m3 Respirable Dust	10 mg/m3 Total Dust
Amorphous silicon dioxide	7631-86-9 6 -10	15 mg/m3 Total Dust 5 mg/m3 Respirable Dust	10 mg/m3 Total Dust

**Engineering Controls:** Local exhaust can be used, if necessary, to control airborne dust levels.

**Personal Protection:** The use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact is recommended. Following work, workers should shower with soap and water. Precautions must be observed because burns occur with little warning – little heat is sensed.

**Exposure Limits:** Consult local authorities for acceptable exposure limits.

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Section 9 – PHYSICAL/CHEMICAL CHARACTERISTICS

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**Appearance:** Gray, Light Gray, Grayish Brown

**Specific Gravity:** 3.0 to 3.15

**Boiling Point:** >2700°F

**Vapor Density:** Not Applicable

**Solubility in Water:** Slight

**Melting Point:** >2700°F

**Vapor Pressure:** Not Applicable

**Evaporation Rate:** Not Applicable

**Odor:** Not Applicable

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Section 10 – REACTIVITY DATA

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**Stability:** Stable

**Incompatibility (Materials to Avoid):** Contact with powerful oxidizing agents, such as fluorine, Chlorine trifluoride and oxygen difluoride may cause fires.

**Hazardous Decomposition or Byproducts:** Silica will dissolve in hydrofluoric acid and produce a corrosive gas – silicon trifluoride.

**Hazardous Polymerization:** Will not occur.

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Section 11 – TOXICOLOGICAL INFORMATION

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**Routes of Entry:** Inhalation, Ingestion

**Toxicity to Animals:**

LD50: Not Available

LD50: Not Available

**Chronic Effects on Humans:** Conditions aggravated by exposure include eye disease, skin disorders and Chronic Respiratory conditions.

**Special Remarks on Toxicity:** Not Available

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#### Section 12 – ECOLOGICAL INFORMATION

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**Ecotoxicity:** Not Available

**BOD5 and COD:** Not Available

**Products of Biodegradation:** Not Available

**Toxicity of the Products of Biodegradation:** Not Available

**Special Remarks on the Products of Biodegradation:** Not Available

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#### Section 13 – DISPOSAL CONSIDERATIONS

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**Waste Disposal Method:** The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302)

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#### Section 14 – TRANSPORT INFORMATION

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**DOT/UN Shipping Name:** Non-regulated

**DOT Hazard Class:** Non-regulated

**Shipping Name:** Non-regulated

Non-Hazardous under U.S. DOT and TDG Regulations

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#### Section 15 – OTHER REGULATORY INFORMATION

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**US OSHA 29CFR 1910.1200:** Consider hazardous under this regulation and should be included in the employer's hazard communication program.

**SARA (Title III) Sections 311 & 312:** Qualifies as hazardous substance with delayed health effects.

**SARA (Title III) Section 313:** Not subject to reporting requirements

**TSCA (May 1997):** All components are on the TSCA inventory list

**Federal Hazardous Substance Act:** Is a hazardous substance subject to statutes promulgated under the subject act.

**California Regulation Prop 65: WARNING,** This product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

**Canadian Environmental Protection Act:** Not listed

Canadian WHMIS: Consider to be hazardous material under Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E- Corrosive Material) and subject to the requirements of Health Canada’s Workplace Hazardous Materials Information (WHMIS). This product has been classified according to the hazard criteria of the Controlled Products Regulation (CPR). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and CPR.

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**Section 16 – OTHER INFORMATION**

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**HMIS – III**

Health –	0 = No Significant health risk 1 = Irritant or minor reversible injury possible 2 = Temporary or minor injury possible 3 = Major injury possible unless prompt action is taken 4 = Life threatening, major or permanent damage possible
Flammability -	0 = Material will not burn 1 = Material must be pre-heated before ignition will occur 2 = Material must be exposed to high temp. before ignition 3 = Material capable of ignition under normal temp. 4 = Flammable gases or very volatile liquids; may ignite spontaneously
Physical Hazard -	0 = Material is normally stable, even under fire conditions 1 = Material normally stable but may become unstable at high temps 2 = Materials that are unstable and may undergo react at room temp 3 = Materials that may form explosive mixtures under water 4 = Materials that are readily capable of explosive water reaction

**Abbreviations:**

ACGIH	American Conference of Government Industrial Hygienists
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Product Regulations (Canada)
DOT	Department of Transportation
IARC	Internal Agency for Research
MSHA	Mine Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicity Report
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RCRA	Resource Conservation and Recovery Act
SARA	Superfund Amendments and Reauthorization Act
TLV	Threshold Limit Value
TWA	Time-Weighted Average
WHMIS	Workplace Hazardous Material Information System

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**NOTE:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.