

## FIELD-APPLIED COMPOSITE SYSTEMS LLC

925 North Todd Avenue, Azusa, CA 91702 USA Phone (626) 633-0294 www.facs.llc

## **SAFETY DATA SHEET**

# **PowerSleeve<sup>™</sup> Standard Matrix-Part A**

## **SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME**: PowerSleeve™ Standard Matrix-Part A

MFR'S NAME: Field-Applied Composite Systems LLC, 925 North Todd Avenue, Azusa CA 91702 EMERGENCY PHONE: 800.424.9300 (CHEMTREC) GENERAL INFORMATION: 626.633.0294 USE OF THE SUBSTANCE: Epoxy resin used with fiberglass or carbon fabric for the repair of pipelines or

other structures.

## **SECTION 2: HAZARDS IDENTIFICATION**

**OSHA/HCS status:** Not regulated.

**GHS Label Elements:** Hazard Pictograms:





Signal Word: Warning!

### **Hazard Statements and GHS Classifications:**

H315	Causes skin irritation.	Category 2
H317	May cause an allergic skin reaction.	Category 1
H319	Causes serious eye irritation.	Category 2

H411 Toxic to aquatic life with long lasting effects. Category 2, Chronic

## **Precautionary Statements:**

**Prevention:** P261: Avoid breathing fumes, vapors, mist or spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear protective clothing, gloves and eye protection.

**Responses:** P301+P312: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call POISON

CENTER or doctor if you feel unwell.

P302+P352+P333+P313: IF ON SKIN: Rinse skin with water/shower and wash with plenty of soap and water. If skin irritation or rash occurs, get medical attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

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

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

P337+F313: If eye irritation persists, get medical attention.

P391: Collect spillage.

**Storage:** P403+P233: Store in a well-ventilated place. Keep containers tightly closed.

P405: Store in a secure area.

**Disposal:** P501: Dispose of contents and containers in accordance with all local, regional and

international regulations.

Other Hazards: None known.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture.

CHEMICAL NAME
Bisphenol-A Reaction Product and Epoxy Resin
Proprietary Ingredients

CAS NUMBER
25085-99-8
>75%
Trade Secret
<25%

Occupational Exposure Limits, if available, are listed in Section 8.

### **SECTION 4: FIRST AID MEASURES**

## **Description of necessary first aid measures:**

**General** Get medical attention immediately for any person who is having trouble or not

breathing, or any unconscious person. Provide oxygen or artificial respiration to a person if they have trouble breathing. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Place an unconscious person in a recovery

position, maintain an open airway and loosen tight clothing.

**Inhalation** Remove victim to fresh air and keep warm and at rest in a position comfortable for

breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48

hours.

**Skin Contact** Remove contaminated clothing and shoes. Wash the affected area with plenty of soap

and water until no evidence of the chemical remains (at least 15-20 minutes). Launder clothing before reuse. Get medical attention if irritation persists. Heavily soiled clothing

or footwear should be disposed of properly.

**Eye Contact** Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids and rolling eyes in a circular motion. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes, or longer if there is any indication that

material remains in the eye. Get medical attention if irritation persists.

**Ingestion** Wash out mouth with water. Remove dentures, if any. Remove victim to fresh air and

keep at rest in a position comfortable for breathing. DO NOT induce vomiting. Get

medical attention if discomfort persists.

## <u>Most Important Symptoms/Effects, Acute and Long –Term:</u>

**Potential Acute Health Effects:** 

**Inhalation** Gas or vapor in high concentrations may irritate respiratory system. Exposure to

decomposition products may cause a health hazard. Serious effects may be delayed after exposure. Harmful if inhaled in high airborne concentrations. Persons with

REVISION: 0

sensitive airways (e.g., asthmatics) may react to vapors.

**Skin Contact** May cause skin irritation. May cause an allergic skin irritation or aggravate existing

conditions through prolonged/repeated contact.

**Eye Contact** Irritating and may cause redness and pain.

**Ingestion** May cause discomfort if swallowed.

Overexposure Signs/Symptoms:
Inhalation No specific data.

**Skin Contact** Adverse symptoms may include the following: Irritation and/or Redness.

SDS: P/S STANDARD RESIN PARTA Page 2 of 7 ISSUE DATE: 1/30/2024

FIELD-APPLIED COMPOSITE SYSTEMS LLC

**Eye Contact** Adverse symptoms may include the following: Pain or Irritation. Watering. Redness.

**Ingestion** No specific data.

### Indication of Immediate Medical Attention and/or Special Treatment needed:

Notes to Physician Treat symptomatically.

Specific Treatments No specific treatment(s).

See also Toxicological Information in Section 11.

### **SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media** Dry chemicals, foam, water spray or carbon dioxide.

**Unsuitable Media** Water jet.

**Specific Hazards** Material is not considered a fire or explosion hazard but will burn if ignited. Closed

containers may rupture due to pressure build-up when exposed to extreme heat.

Containers should be sprayed with water if possible to avoid this.

## **National Fire Protection Association (USA):**

**Labeling:** Health: 1 Fire: 1 Reactivity: 0

## **Hazardous Thermal Decomposition Products**

Irritating or toxic substances may be emitted upon burning or decomposition. See **Section 10** for additional information.

## **Special Protective Actions for Fire Fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

### **Special Protective Equipment for Fire Fighters**

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in a positive pressure mode during the attack phase of firefighting operations. During cleanup, if area is poorly ventilated, SCBA should be used.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## **Personal Precautions, Protective Equipment and Emergency Procedures**

Keep unauthorized persons away. Provide adequate ventilation and avoid breathing vapors. Put on appropriate personal protective equipment (see **Section 8**). If spilled in an enclosed area, ventilate area or use SCBA. Remove potential ignition sources.

#### **Environmental Precautions**

Avoid dispersal of material and runoff from contact with soil, waterways, drains and/or sewers.

## Methods and Materials for Containment and Cleaning Up (Small or Large Spill)

Stop leak if possible without risk. Move containers from spill area. Absorb spilled material with vermiculite, dry sand or earth and put into containers and dispose of via a licensed waste disposal contractor. Clean spillage area with solvents or plenty of water. Do not allow runoff into sewers or water courses

## **SECTION 7: HANDLING AND STORAGE**

## **Precautions for Safe Handling/Personal Hygiene**

Use appropriate personal protective equipment as per **Section 8**. Keep in the original container or an approved alternative; keep containers tightly closed when not in use. Do not reuse containers.

Keep away from heat, sparks and open flame. Eating, drinking and/or smoking should be prohibited where this material is being used. Workers should remove contaminated clothing/protective equipment and wash hands and face and before entering eating areas and eating, drinking and/or smoking.

SDS: P/S STANDARD RESIN PART A Page 3 of 7 ISSUE DATE: 1/30/2024
FIELD-APPLIED COMPOSITE SYSTEMS LLC REVISION: 0

## **Conditions for Safe Storage, including any Incompatibilities**

Store in sealed original containers, or approved alternatives, when not in use in a dry, well-ventilated area. Protect containers from direct sunlight in a dry, cool and well ventilated area between  $15^{\circ}$ C  $40^{\circ}$ C ( $\sim 110^{\circ}$ F). Do not reuse containers.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

## **Occupational Exposure Limits:**

CHEMICAL NAME	CAS NUMBER	ACGIH TWA	<b>ACGIH -STEL</b>
Bisphenol-A Reaction Product			
and Epoxy Resin	25085-99-8	N/A	N/A

## **Appropriate Engineering Controls**

Good general ventilation should be sufficient to control worker exposure to any airborne contaminants. If working in enclosed spaces, provide additional local ventilation. Eyewash fountains and safety showers are recommended, as well as good laboratory procedures and care.

### **Exposure controls**

### **Respiratory Protection**

If necessary, a properly-fitted vapor mask/respirator complying with an approved standard or SCBA should be used.

### **Hand Protection**

Chemical-resistant (impervious) gloves (such as nitrile rubber of .35mm thickness or similar) should be worn when handling this material. Contaminated gloves should be disposed of properly.

## **Body Protection**

Chemically resistant long-sleeved shirts and long pants or lab coats are recommended. Contaminated clothing should be washed separately from other clothes before reuse. Footwear appropriate for the work being performed should be worn and cleaned carefully if contaminated, before reuse. Heavily soiled clothing or shoes should be discarded.

## **Eye/Face Protection**

Safety eyewear and face shields appropriate for the work being performed should be used. Ordinarily, this means a minimum of safety eyewear or splash goggles.

### **General**

Use good laboratory/workplace procedures. Easy access to eyewash fountains and/or safety showers is recommended.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
Physical State:	Liquid	Color:	Clear syrup
Odor:	Slightly sweet	Odor Threshold:	N/A
рH	N/A	Melting Point:	N/A
Boiling Point:	N/A	Flash Point:	~177°C (~350°F)
	•		

Evaporation Rate:	N/A	Vapor	<1mm Hg @ 20°C	
		Pressure/Density:	Heavier than air.	
Relative Density	1.16	Viscosity:	3,000 cP @25°C	
Auto-Ignition Temp.	~300°C (~570°F)	Decomposition Temp.	N/A	
Upper/Lower Flammability or Explosive Limits N/A				
Solubility: Slight (Partition Coefficient: N/A)				
VOC Content: None.				

Page 4 of 7

SDS: P/S STANDARD RESIN PARTA
FIELD-APPLIED COMPOSITE SYSTEMS LLC

ISSUE DATE: 1/30/2024 REVISION: 0

### SECTION 10: STABILITY AND REACTIVITY

Reactivity: Exothermic reactions including polymerization may occur in contact with amines, strong acids, bases and/or oxidizing agents, epoxy hardeners (in uncontrolled conditions) and excessive heat.

**Chemical Stability:** This product is stable under normal conditions.

**Possibility of Hazardous Reactions:** See "Reactivity" above for cautions.

**Conditions to Avoid:** Avoid excessive heat for prolonged periods.

**Incompatible Materials:** Strong acids, bases and oxidizing agents, and amines.

Hazardous Decomposition Products: Thermal decomposition may produce smoke, oxides of carbon and

nitrogen, and other products of incomplete combustion.

### SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

**CHEMICAL NAME** LD<sub>50</sub> ORAL (RAT) LC<sub>50</sub> INHALATION LD<sub>50</sub> DERMAL

> (RABBIT) (RAT)

> > Not available

REVISION: 0

Bisphenol-A Reaction Product and Not available Not available

**Epoxy Resin** 

Skin Corrosion/Irritation: Skin Irritation-Category 2 **Serious Eye Damage/Irritation:** Eye Irritation-Category 2 **Respiratory or Skin Sensitization:** Sensitization-Category 1

**Mutagenicity:** No specific data. **Carcinogenicity:** No specific data.

**Reproductive Toxicity:** No specific data. **Teratogenicity:** No specific data.

**Aspiration Hazard:** No specific data.

Specific Target Organ Toxicity (Single and Repeated Exposure): No specific data. **Information on the Likely Routes of Exposure:** Eyes, skin, inhalation and ingestion.

**Potential Acute Health Effects and Related Symptoms:** 

See Section 4.

### Delayed, immediate and chronic effects from short and long term exposure:

Some persons may become sensitized after chronic exposure and may exhibit moderate to severe allergic reactions when exposed.

### SECTION 12: ECOLOGICAL INFORMATION

### **Toxicity:**

### **CHEMICAL NAME**

Bisphenol-A Reaction Product and Epoxy Resin: No specific data is available. Material may be toxic to aquatic organisms.

## Persistence and Degradability:

#### **CHEMICAL NAME**

Bisphenol-A Reaction Product and No specific data. Not readily biodegradable, based on similar

**Epoxy Resin** materials.

ISSUE DATE: 1/30/2024 SDS: P/SSTANDARD RESIN PARTA Page 5 of 7 FIELD-APPLIED COMPOSITE SYSTEMS LLC

### **Bioaccumulative Potential:**

CHEMICAL NAME Log Kow BCF POTENTIAL

Bisphenol-A Reaction Product

and Epoxy Resin N/A N/A Low, based on similar materials.

Mobility in Soil: Soil/Water Partition Coefficient (K<sub>OC</sub>)

Bisphenol-A Reaction Product

and Epoxy Resin N/A

Other Adverse Effects: Other information is not available.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of unused contents (incineration) in accordance with national and local regulations. Dispose of container in accordance with national and local regulations. Ensure the use of properly authorized waste management companies, where appropriate. See **Section 8** for recommendations on the use of personal protective equipment.

### **SECTION 14: TRANSPORTATION INFORMATION**

**UN No's:** DOT/TDG/IMDG/IATA: Not regulated.

**DOT/TDG/UN Proper Shipping Name:** Not regulated.

Hazard Classes: N/A-not regulated.Hazard Labels: N/A-not regulated.Pack Groups: N/A-not regulated.

**Environmental Hazards:** Marine Pollutant: No. Hazardous Substance (USA): No.

**Special Precautions for User:** No information is available.

Transporting in Bulk per Annex II of MARPOL73/78 and IBC: No information is available. Components

have no reportable quantity thresholds.

**Label for Conveyance:** N/A-not regulated.

### SECTION 15: REGULATORY INFORMATION

## **International and US Inventory Lists**

Canada Inventory (DSL)		EU-ELINCS	Not listed.*
Canada Inventory (NDSL)		<b>EU-EINECS</b>	Not listed.*
<b>US Toxic Substances</b>	All components are listed or	REACH, Annex XIV	Not listed*
Control Act (TSCA)	exempt	and Annex XVII	
Korea, Philippines and			
Australia Lists			

<sup>\*</sup>Note: There is no listing on the public inventory, no information is available or the component has not been reviewed.

**Substances of Very High Concern:** None of the components are listed. Components are not listed as CA Prop 65 chemicals nor are they on any State Right to Know listings.

**OSHA:** 29 CFR 1910.1200 Hazardous Chemical-"Irritant", "Sensitizer".

**SARA:** Section 311/312: Immediate Health Hazard. Section 313: Not listed.

Other Information: N/A

SDS: P/S STANDARD RESIN PARTA
FIELD-APPLIED COMPOSITE SYSTEMS LLC

*Page 6 of 7* 

ISSUE DATE: 1/30/2024 REVISION: 0

### **SECTION 16: OTHER INFORMATION**

#### **ABBREVIATIONS:**

ACGIH: American Conference of Governmental Industrial Hygienists ADR/RID: European dangerous goods transport, road and rail, regulations

CAS: Chemical Abstract Service Registry DOT: Department of Transportation (U.S.)

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

IATA: International Air Transport Association ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods code

**OEL: Occupational Exposure Limits** 

OSHA: Occupational Safety and Health Administration (U.S.)

PEL: Permissible Exposure Limit

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit (15 minute Time Weighted Average) TDG: Canadian Transportation of Dangerous Goods Act and Regulations

TPQ: Threshold Planning Quantity

RQ: Reportable Quantity UN: United Nations U.S.: United States

N/A: Not available or not applicable.

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#### **Notice:**

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**END OF SDS** 

Page 7 of 7

SDS: P/S STANDARD RESIN PART A
FIELD-APPLIED COMPOSITE SYSTEMS LLC

ISSUE DATE: 1/30/2024 REVISION: 0