



FIELD-APPLIED COMPOSITE SYSTEMS LLC
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SAFETY DATA SHEET

BP-4 Primer-Part A

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BP-4 Primer-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: Part A of a primer compound for use with AquaWrap™ and PowerSleeve™
Fiberglass and carbon fabrics/resin systems for the repair of pipelines or other structures.

SECTION 2: HAZARDS IDENTIFICATION

OSHA/HCS status: No information available.

GHS Label Elements:

Hazard Pictograms:



Signal Word: Warning!

Hazard Statements and GHS Classifications:

H315, H319 Causes skin and serious eye irritation. Category 2

H317 May cause an allergic skin reaction. Category 1

H335 May cause respiratory irritation. Category 3

Precautionary Statements:

Prevention: P261 Avoid breathing fumes, mist, vapors, and 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 gloves, clothing, and eye/face protection.

Responses: P301+P312 IF SWALLOWED: Call POISON CENTER, and/or get medical assistance if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical attention.
P362+P364: Take off contaminated clothing, and wash it before reuse.
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.
P337+P313: 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. No Physical or Chemical Hazards classified under GHS.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Ingredient	% by WT	CAS #	67/548/EEC	Regulation (EC) 1272/2008 (CLP)
Epoxy Resin	50-100%	N/A*	Irritant	No Data Available.
Aromatic Mono-Epoxy	2.5-10%	N/A*	Irritant	
Fumed Silica	≤4.9%	N/A*	No Data	
Carbon Black	≤2.5%	1333-86-4	Available.	

*Not Available, Proprietary.

Occupational Exposure Limits, if available, are listed in Section 8. Other ingredients are considered proprietary.

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. 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	Immediately remove contaminated clothing and shoes. Wash the affected area with plenty of soap and water until no evidence of the chemical remains. Launder clothing before reuse. Get medical attention if symptoms occur.
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 until material appears removed. Get medical attention if symptoms occur.
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.

Most Important Symptoms/Effects, Acute and Long –Term:

Potential Acute Health Effects:

Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed after exposure. Harmful if inhaled in high airborne concentrations.
Skin Contact	Causes skin irritation. May cause an allergic skin irritation. Pre-existing skin problems may be aggravated.
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.
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. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Specific Treatments No specific treatment(s).

See also Toxicological Information in Section 11.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media Dry chemicals, water spray, foam, or carbon dioxide. Spray containers with water to keep cool and avoid rupture due to pressure buildup.

Unsuitable Media None known.

Specific Hazards Material is not considered a fire hazard but will burn if ignited.

National Fire Protection Association (USA):

Labeling: Health: 1 Fire: 1 Reactivity: 0

Hazardous Thermal Decomposition Products

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

Special Protective Actions for Firefighters

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 Firefighters

Firefighters 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. See **Section 9** for additional information.

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 N-100-class breathing protection. 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. Put into closed containers, store in a safe location, and dispose of via a licensed waste disposal contractor. Do not allow runoff into sewers or water sources

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling/Personal Hygiene

Use good laboratory/workplace procedures. 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.

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 before entering eating areas, and eating, drinking, and/or smoking.

Conditions for Safe Storage, including any Incompatibilities

Keep away from heat, sparks, and open flames. Store in sealed, original containers, or approved alternatives, in a dry, well-ventilated area when not in use. Protect containers from direct sunlight. Do not allow to freeze, or exceed 40°C (~110°F). Do not reuse containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Ingredient	CAS#	Exposure Limits (ACGIH-TWA or ACGIH-STEL)
Epoxy Resin	N/A*	Not established.
Aromatic Mono-Epoxy	N/A*	Not established.

*Not Available, Proprietary.

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/shop procedures and care.

Exposure controls

Respiratory Protection

If necessary, a properly-fitted vapor mask/respirator (organic vapor respirator) should be used.

Hand Protection

Impervious, chemical-resistant gloves (such as nitrile rubber, PVC, etc., 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 contaminated clothing or footwear should be disposed of properly.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous liquid	Color:	Light Grey
Odor:	Mild Aromatic	Odor Threshold:	N/A
pH	N/A	Melting Point:	N/A
Boiling Point:	N/A	Flash Point:	>251°C (484°F)
Evaporation Rate:	N/A	Vapor Pressure/Density:	<1mm Hg at 25°C Heavier than air.
Relative Density	1.24	Viscosity:	N/A
Auto-Ignition Temp.	N/A-not self-igniting	Decomposition Temp.	N/A
Solubility	Not miscible.	VOC content:	None

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Hazardous polymerization will not occur.

Chemical Stability: This product is stable under normal conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: None known.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

Product/Ingredient	LC ₅₀ Inhalation	LD ₅₀ Oral (Rat)	LD ₅₀ Dermal (Rabbit)
Aromatic Mono-Epoxyde	N/A	4,000 mg/kg	N/A

Skin Corrosion/Irritation: Skin Irritation-Category 2

Serious Eye Damage/Irritation: Eye Irritation-Category 2

Respiratory or Skin Sensitization: Skin Sensitization-Category 1

Mutagenicity: No specific data. **Carcinogenicity:** See **Section 15**.

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, Persistence and Degradability:

Product/Ingredient	LC ₅₀ 96 Hours (Fish)	EC ₅₀ 24 Hours (Daphnia)	IC ₅₀ 96 Hours (Bacteria)	Biodegradability
Aromatic Mono-Epoxyde	N/A	N/A	N/A	N/A

Bioaccumulative Potential:

Ingredient	LogP _{ow}	BCF	Potential
Aromatic Mono-Epoxyde	N/A	N/A	N/A

Mobility in Soil (soil/water partition coefficient-K_{oc}):

No specific data

Other Adverse Effects: Other information is not available. Classification of materials as PBT or vPvB is not applicable.

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: Not regulated.

DOT/TDG Proper Shipping Name:
Not Regulated.

Hazard Classes: DOT: Not Regulated. TDG: Not Regulated. IMDG: N/A ICAO: N/A

Hazard Labels: DOT: N/A TDG: N/A

Pack Groups: DOT: N/A IMDG: N/A AIR: N/A

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

Transporting in Bulk according to Annex II of MARPOL 73/78 and the IBC Code: No specific data.

Surface Shipment within the US: Not regulated.

Label for Conveyance:

None

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:

International and US Inventory Lists

Canada Inventory (DSL)	All components listed or exempt.	EU-ELINCS	Not listed.*
Canada Inventory (NDSL)	Not listed.*	EU-EINECS	Listed or Exempt
US Toxic Substances Control Act (TSCA)	All components listed or exempt.	REACH, Annex XIV and Annex XVII	Not listed*
Other	Not determined, no additional information is available.		

***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: No information is available.

US State Right to Know Lists:

No information is available.

Titanium Dioxide (CAS 13463-67-7) and Carbon Black (CAS1333-86-4) are listed under TSCA, CA Prop 65 and NIOSH for exposure limits and as substances believed to cause cancer when in respirable (powder or dust) form. In this material, these compounds are bound within a matrix, not respirable and are not considered dangerous.

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
RO: Reportable Quantity
SDS: Safety Data Sheet
STEL: Short Term Exposure Limit (15 minute Time Weighted Average)
TDG: Canadian Transportation of Dangerous Goods Act and Regulations
UN: United Nations
U.S.: United States

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