



**AIR LOGISTICS CORPORATION – F.A.C.S. Group**  
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**SAFETY DATA SHEET**

**PowerSleeve™ 70079 Matrix-Part A**

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

**PRODUCT NAME:** PowerSleeve™ 70079 Matrix-Part A  
**MFR'S NAME:** Air Logistics Corporation, 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:**

H302	Harmful if swallowed	Not categorized.
H315	Causes skin irritation.	Not categorized.
H317	May cause an allergic skin reaction.	Not categorized.
H320	Causes eye irritation.	Not categorized.
H335	May cause respiratory irritation	Not categorized.

**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+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.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**Substance/Mixture:** Substance.

CHEMICAL NAME	CAS NUMBER	CONTENT
Bisphenol-A Reaction Product	25085-99-8	<25%
Polymers of Epichlorhydrin	28064-14-4	<40%
Titanium Dioxide	13463-67-7	>35%

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

### SECTION 4: FIRST AID MEASURES

#### Description of necessary first aid measures:

<b>General</b>	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.
<b>Inhalation</b>	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.
<b>Skin Contact</b>	Immediately 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.
<b>Eye Contact</b>	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.
<b>Ingestion</b>	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 immediately.

#### Most Important Symptoms/Effects, Acute and Long -Term:

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

<b>Inhalation</b>	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 sensitive airways (e.g., asthmatics) may react to vapors.
<b>Skin Contact</b>	May cause skin irritation. May cause an allergic skin irritation or aggravate existing conditions through prolonged/repeated contact.
<b>Eye Contact</b>	Irritating and may cause redness and pain.
<b>Ingestion</b>	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.

**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.

Note that when this material is combined in the proper ratio with its Hardener (70079 Part B) and cured, it becomes an inert solid that is non-hazardous

**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.

**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°C 40°C (~110°F). Do not reuse containers.

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

**Control Parameters**

**Occupational Exposure Limits:**

<b><u>CHEMICAL NAME</u></b>	<b><u>CAS NUMBER</u></b>	<b><u>ACGIH TWA</u></b>	<b><u>ACGIH -STEL</u></b>
Bisphenol-A Reaction Product	25085-99-8	N/A	N/A
Polymers of Epichlorhydrin	28064-14-4	N/A	N/A
Titanium Dioxide	13463-67-7	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**

<b>Physical State:</b>	Liquid	<b>Color:</b>	Light gray
<b>Odor:</b>	Mild, sweet	<b>Odor Threshold:</b>	N/A
<b>pH</b>	N/A	<b>Melting Point:</b>	N/A
<b>Boiling Point:</b>	N/A	<b>Flash Point:</b>	>177°C (>350°F)

<b>Evaporation Rate:</b>	N/A	<b>Vapor Pressure/Density:</b>	<1mm Hg @ 20°C Heavier than air.
<b>Relative Density</b>	N/A	<b>Viscosity:</b>	N/A
<b>Auto-Ignition Temp.</b>	370°C (570°F)	<b>Decomposition Temp.</b>	N/A
<b>Upper/Lower Flammability or Explosive Limits</b>		N/A	
<b>Solubility:</b> Slight (Partition Coefficient: N/A)			
<b>VOC Content:</b> None.			

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Exothermic reactions including polymerization may occur in contact with strong acids, bases and/or oxidizing agents, alcohols 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, phenolics and other products of incomplete combustion.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Acute Toxicity

CHEMICAL NAME	LC <sub>50</sub> INHALATION (RAT)	LD <sub>50</sub> ORAL (RAT)	LD <sub>50</sub> DERMAL (RABBIT)
Bisphenol-A Reaction Product	Not available	Not available	Not available
Polymers of Epichlorhydrin	Not available	Not available	Not available
Titanium Dioxide	Not available	>10,000 mg/kg	>10,000 mg/kg

**Skin Corrosion/Irritation:** Skin Irritation- Not categorized.

**Serious Eye Damage/Irritation:** Eye Irritation- Not categorized.

**Respiratory or Skin Sensitization:** Sensitization- Not categorized.

**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	LC <sub>50</sub> 96 Hours (Fish)	EC <sub>50</sub> 24 Hours (Daphnia)	IC <sub>50</sub> 96 Hours (Bacteria)
Bisphenol-A Reaction Product	N/A	N/A	N/A
Polymers of Epichlorhydrin	N/A	N/A	N/A
Titanium Dioxide	N/A	N/A	N/A

### Persistence and Degradability:

CHEMICAL NAME	OECD Derived from OECD 301F (Biodegradation Test)-28 Days
Bisphenol-A Reaction Product	N/A, but expected to be low based on similar materials.

### Bioaccumulative Potential:

All Chemicals:	Log K <sub>ow</sub>	BCF	POTENTIAL
	N/A	N/A	Expected to be low based on similar materials.

### Mobility in Soil:

All Chemicals:	Soil/Water Partition Coefficient (K <sub>oc</sub> )
	N/A, but expected to be low based on similar materials.

**Other Adverse Effects/Information:** No ingredients meet the classification criteria as PVT or vPvB. No other information is 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. Note that when this material is combined in the proper ratio with its Hardener (70079 Part B) and cured, it becomes an inert solid that is non-hazardous.

## SECTION 14: TRANSPORTATION INFORMATION

**UN No's:** N/A-not regulated

**DOT/TDG/UN Proper Shipping Name:** N/A-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.

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

## SECTION 15: REGULATORY INFORMATION

### International and US Inventory Lists

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

**\*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. Titanium Dioxide (TiO<sub>2</sub>) is on the Right to Know lists of the following states: MA, PA, NJ, and CA. TiO<sub>2</sub> is a CA Prop 65 chemical suspected of causing cancer when in an airborne, respirable form. In this application, TiO<sub>2</sub> is bound inside a liquid or in a solid (in final form) and is not a listed chemical.

**SARA:** Section 311/312: Immediate health hazard. Section 313: Not listed.

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

**WHMIS:** Classified as a D2B Skin Sensitizer.

Symbol: Stylized "T"

Contains chemicals controlled under HPA Sections 13/14.

**Other Information:** N/A

## 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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**Reason for Revision:** N/A

### Notice:

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**END OF SDS**