



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

**PowerSleeve™ 70079 Matrix-Part B**

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

**PRODUCT NAME:** PowerSleeve™ 70079 Matrix-Part B  
**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:** Hardener combined with 70079 Matrix Part A and 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, H332	Harmful if swallowed or inhaled.	Not Categorized
H313	May be Harmful in contact with skin	Not Categorized
H317, H334	May cause an allergic skin or pulmonary reaction.	Not Categorized
H319	Causes serious eye irritation.	Not Categorized
H335	May cause respiratory irritation.	Not Categorized
H413	May cause long-lasting harmful effects to aquatic life.	Not Categorized

**Precautionary Statements:**

**Prevention:** P261: Avoid breathing fumes, vapors, dust, mist or spray.  
 P262: Avoid contact with eyes, skin, hair or clothing.  
 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+P330: 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+P313 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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	CAS NUMBER	CONTENT
TETA, Phenol Reaction Products	32610-77-8	>40%
Benzyl alcohol	100-51-6	>20%
Phenol	108-95-2	20%
Triethylenetetramine	112-24-3	<20%

**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. Get medical attention. 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 (at least 15-20 minutes). Launder clothing before reuse. Get medical attention.
- 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.
- 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 immediately.

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

##### **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 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** Coughing, pain, breathing difficulty.

**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: 2 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. Use DOT Response Guide #153

**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.

**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 soap and plenty of water. Note that when properly combined with 70079 Part A Resin and allowed to cure, material 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:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>ACGIH TWA</u>	<u>ACGIH -STEL</u>
TETA	32610-77-8	N/A	N/A
Benzyl alcohol	100-51-6	N/A	N/A
Phenol	108-95-2	N/A	N/A
Triethylenetetramine	124-24-3	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>	Clear amber
<b>Odor:</b>	Mild, amine	<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>	>99°C (>210°F)

<b>Evaporation Rate:</b>	N/A	<b>Vapor Pressure/Density:</b>	N/A
<b>Relative Density</b>	N/A	<b>Viscosity:</b>	N/A
<b>Auto-Ignition Temp.</b>	N/A	<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 may occur in contact with strong acids or oxidizing agents, epoxy resins (in uncontrolled conditions) or other unpolymerized monomers/polymers, 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.

**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	LC <sub>50</sub> INHALATION (RAT)	LD <sub>50</sub> ORAL (RAT)	LD <sub>50</sub> DERMAL (RABBIT)
TETA	Not Available	Not Available	Not Available
Benzyl alcohol	Not Available	Not Available	No irritation
Phenol	Not Available	Not Available	Not Available
Triethylenetetramine	Not Available	Not Available	Not Available

**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.

**Carcinogens Under OSHA, ACGIH, NTP, IARC or Other:** None  $\geq$ 0.1%

**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> (Daphnia)	IC <sub>50</sub> 96 Hours (Bacteria)
No specific data is available for any components.			

**Persistence and Degradability:**

**CHEMICAL NAME** OECD Derived from OECD 301F (Biodegradation Test)-28 Days  
No specific data is available for any components.

**Bioaccumulative Potential:**

**CHEMICAL NAME**                      **Log K<sub>ow</sub>**                      **BCF**                      **POTENTIAL**  
No specific data is available for any components.

**Mobility in Soil:**

No specific data is available for any components.

**Other Adverse Effects/Information:** No other information is available. Information for classification as PBT or vPvB is unavailable.

**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose of unused contents 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 combined properly with 70079 Part A Resin and allowed to cure, material becomes an inert solid that is non-hazardous.

**SECTION 14: TRANSPORTATION INFORMATION**

**UN No's:**                      DOT/TG: Not regulated                      IMDG: N/A                      ICAO: N/A

**DOT/TDG/UN Proper Shipping Name:** Liquid, Irritant.

**Hazard Classes:**                      Not regulated.

**Hazard Labels:**                      Not regulated.

**Pack Groups:**                      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-none, not regulated.

**SECTION 15: REGULATORY INFORMATION**

**International and US Inventory Lists**

<b>Canada Inventory (DSL)</b>	N/A	<b>EU-ELINCS</b>	N/A
<b>Canada Inventory (NDSL)</b>	N/A	<b>EU-EINECS</b>	N/A
<b>US Toxic Substances Control Act (TSCA)</b>	Components are listed.	<b>REACH, Annex XIV and Annex XVII</b>	N/A

**Substances of Very High Concern:** None of the components are listed.

**WHMIS:**                      Classified as a D2B Skin Sensitizer.  
Symbol: Stylized "T"  
Contains chemicals controlled under HPA Sections 13/14.

**Other Information:** Benzyl alcohol, Phenol and Triethylenetetramine are on the "Right to Know" lists of the following states: MA, NJ, and PA. No components are listed as CA Prop 65 chemicals. No other information is available.

## 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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