

MATERIAL SAFETY DATA SHEET

Product: Pyro-Duct 597-C
Revision Date: 3/01/2012

1. MATERIAL IDENTIFICATION

Product Name: Pyro-Duct 597-C

Product Description: High Temperature Silver Coating
Product Use: High Temperature Electrically Conductive Coating

Manufacturer: Aremco Products, Inc.
707-B Executive Blvd.
Valley Cottage, NY 10989

Telephone: 845-268-0039
Emergency Phone: 845-268-0039 or Infotrac (24/7) 800-535-5053

2. COMPOSITION

Ingredient	CAS #	OSHA PEL (mg/m ³)	Weight %
Silicone Resin	N/D	N/D	10-20
Silver Compounds, as Ag	7440-22-4	0.1	0.01
Ethanol	64-17-5	1000 ppm	40-50
1-Propanol, 2-Methyl	78-83-1	5	< 1
1-Propanol, 1-Methyl, Acetate	108-65-6	5	< 1

Notes:

- 1) This product is a liquid mixture and all powders are encapsulated.
- 2) Exposure values shown for guidance only. Please follow applicable regulations.

3. HAZARDS IDENTIFICATION

Emergency Overview: Blue colored coating, aromatic odor. Causes irritation to eyes, skin, and digestive tract.

Eye Contact: May cause eye irritation and eye damage.

Skin Contact: May cause irritation or dermatitis.

Inhalation Acute: Solvent vapors may cause irritation in respiratory tract, headaches, dizziness, and other signs of central nervous system depression.

Ingestion Acute: May cause nausea. Small amounts of solvent aspirated into the lungs during ingestion or vomiting may cause pneumonitis or death.

Hazard Designation: Xn Harmful
R 10 Flammable
R 20/21 Harmful by inhalation and in contact with skin
R 38 Irritating to skin

HMIS: Health: 2
Flammability: 2
Reactivity: 0

4. FIRST AID MEASURES

Eye Exposure:

Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. See medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure, assure that victim is breathing, and supply fresh air. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical treatment.

Ingestion:

If swallowed, do not induce vomiting. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Do not leave victim unattended. Seek medical treatment.

Medical Conditions Possibly Aggravated by Exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

General Information:

Symptoms of poisoning may even occur after several hours; medical observation for at least 48 hours after accident should be provided.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Foam, carbon dioxide, dry powder, water spray
Unsuitable Extinguishing Agents:	Not applicable
Special Fire Fighting Procedures:	Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.
Spill Cleanup:	Absorb with liquid-binding material (sand, diatomite, universal binders, and sawdust. Dispose of contaminated material according to local, state and federal regulations. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.
Environmental Protection:	Inform respective authorities in case product reaches water or sewage system. Do not allow entrance to drainage system, surface or ground water.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with dry media. Promptly clean up spills.
Storage:	Store in an area that is cool, dry, well ventilated, away from combustible material, and away from ignition sources. Keep containers closed and well sealed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
Respiratory Protection:	This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.
Skin Protection:	Wear body-covering protective clothing and gloves.
Eye Protection:	Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical here represent typical properties of this product. Contact Technical Sales for exact specifications.

Form:	Coating
Color:	Silver
Odor:	Aromatic
Specific Gravity, g/cc:	2.01
Solids Content:	70.0 %
Solvent Content:	30.0 %
Water Solubility:	Insoluble
Melting Point Range:	Not Determined
Flammability:	Flammable
Ignition Temperature:	Not Determined
Self-Inflammability:	Product is not self-igniting
Vapor Pressure:	Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability:	This material is stable if handled and stored according to specifications.
Conditions to Avoid:	No decomposition if handled and stored according to specifications.
Hazardous Polymerization:	Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	None
Primary Irritant Effect:	On the Skin: Irritant for skin and mucous membranes On the Eye: Irritant for eye

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Weak water pollutant. Do not allow product to reach ground water, water bodies or sewage system.
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13. DISPOSAL CONSIDERATIONS

Disposal Method:	Dispose in accordance with federal, state and local regulations and permits.
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14. TRANSPORTATION INFORMATION

DOT/IATA	
Proper Shipping Name:	Coating Solution
Technical Shipping Name:	Silicone Resin Containing Methoxypropylacetate and Ethanol
Hazard Class:	3
ID Number:	UN1866
Packing Group:	III
Labels:	Flammable

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA:	No CERCLA reportable quantity has been established for this material.
TSCA:	All ingredients of this material are listed on the TSCA inventory.
SARA Title III	
Sections 302, 304, 313:	This product does not contain any substances reportable under these sections.

Sections 311, 312:

<u>Hazard Classes</u>	<u>Yes/No</u>
Fire Hazard	Yes
Reactivity Hazard	No
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No

<u>International Inventory</u>	<u>Status</u>
Canada (DSL)	Yes
Europe (EINECS/ELINCS)	Yes
Australia (AICS)	Yes
Japan (MITI)	Yes
South Korea (KECL)	Yes

**Designation Based on EC Guidelines: Xn Harmful
Hazard-Determining Components:**

Risk Phrases:	10	Flammable
	20/21	Harmful by inhalation and in contact with skin
	38	Irritating to skin
Safety Phrases:	7/8	Keep containers tightly closed and dry
	24	Avoid contact with skin
	43	Use sand in case of fire; never use water

16. OTHER INFORMATION

NFPA:	Health:	2
	Flammability:	2
	Reactivity:	0

Key Legend Information

ACGIH	American Conference of Governmental Industrial Hygienists
ARD	International Agency for Research on Cancer
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
DSL	Domestic Substance List
HMIS	Hazardous Materials Identification System
ND	Not Determined
NE	Not Established
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments & Reauthorization Act
SARA Title III	Emergency Planning & Community Right to Know Act
SARA Section 302	Extremely Hazardous Substances
SARA Section 304	Emergency Release
SARA Section 311	MSDS/List of Chemicals & Hazardous Inventory
SARA Section 312	Emergency & Hazardous Inventory
SARA Section 313	Toxic Chemicals & Release Reporting
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average

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