

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

STATIC INTERCEPT (Synonyms: Corrosion Intercept, Intercept Shrinkfilm, Solid State Reactive Barrier Polymer)
USES: Anti-corrosive, electro-static discharge (ESD) protective packaging barrier material made into various forms including: lamination, sheeting, and co-extruded stretch-wrap and shrinkfilm.

MSDS Date : 10/1/1982 Revision Approved by Keith Donaldson on 12/01/2005

COMPANY IDENTIFICATION

Manufacturer Made Exclusively For:
EMI Corp.
113 McHenry Road, PMB 179
Buffalo Grove, IL 60089
Approved by Keith Donaldson

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY : 841-821-8280
SPILL EMERGENCY : NOT APPLICABLE
CHEMTREC : NOT SUBMITTED

Emergency POC: Keith Donaldson (847) 821-8280

2. COMPOSITION/INFORMATION ON INGREDIENTS.

No	CAS REG NO	WEIGHT (%)	OSHA (PEL)	TLV (TWA)	EMI (AEL)	
1	Copper	7440-50-8	<10	0.1 mg/m ³ fume	Not applicable	Not applicable
2	Polyethylene	9002-88-4	<99	15.0 mg/m ³	Not applicable	Not applicable
3	Polypropylene homopolymer	9003-07-01	<99			

Is any chemical present in this product, at a concentration of 0.1% or more, classified as a carcinogen by IARC, NTP or OSHA? NO

See Section 8, Exposure Controls / Personal Protection

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure

Skin Contact – only if burned
Eye Contact – only if burned
Respiratory Contact – only if burned

Acute Effects of Exposure:

Ingestion

Not a probable route of exposure.

Inhalation

No inhalation risk unless product is heated to point of burning, which in normal applications does not occur. Fumes from combustion are unlikely to be produced during heat shrinking. Local ventilation should be used for comfort. Testing data shows copper/polymer particulate count at approximately 0.007mg/m³, which is well below OSHA PEL of 0.1mg/m³.

Eye Contact

No eye exposure risk during all product usage except during heating if plastic is heated to point of combustion, which does not occur during the intended use of the product. Fumes from combustion, which have a low toxicity, may be produced during hot wire cutting or heat sealing. Fumes are unlikely to be produced during heat shrinking when used as directed.



Skin Contact

Not irritating when used as directed. Hot polymer created during heat shrinking, wire cutting, or heat sealing, may produce thermal burns.

Chronic Effects of Exposure: None known when used as directed.

4. FIRST AID MEASURES

Inhalation

Not a respirable film. If exposed to fumes from from combustion, move subject to fresh air; if breathing is difficult, give oxygen and get medical attention; if victim has stopped breathing, give artificial respiration and get medical attention.

Eye Contact

Not a probable route of exposure. If exposed to fumes from overheating or from combustion, move subject to fresh air. Flush with plenty of water; if irritation continues, get medical attention.

Skin Contact

No treatment necessary. For thermal burns, cool molten materials with water and get medial attention.

Ingestion

Not a probable route of exposure.

5. FIRE FIGHTING MEASURES

Flash Point	Noncombustible
Auto-ignition Temperature	Not Applicable
Lower Explosive Limit	Not Applicable
Upper Explosive Limit	Not Applicable

Unusual Hazards

Polymer film can burn if exposed to excessive temperature beyond the normal use of the product.

Extinguishing Agents

Use extinguishing media appropriate for surrounding fire: carbon dioxide, foam, dry chemical, and water fog.

Personal Protective Equipment

Unnecessary unless resin is burned, which is not an intended use of the product. If resin is burning, wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection

None necessary

Procedures

None necessary

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7. HANDLING AND STORAGE

Storage Conditions:

Avoid temperatures above 325 degrees C.

Cool, dry storage recommended.

Handling Procedures

Product is semi-conductive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Information

No		CAS REG NO	WEIGHT (%)
1	Copper	7440-50-8	<10
2	Polyethylene	9002-88-4	<99

Comp. No.	Units	OSHA		ACGIH		
		TWA	PEL	STEL	TWA	STEL
1		None	0.1 mg/m3 fume	None	None	None
2			15.0 mg/m3 dust			

Respiratory Protection

None required during handling. Local exhaust to remove fumes from heat sealing and hot wire cutting areas of packaging or bag converting for worker comfort.

Eye Protection

None necessary.

Hand Protection

None necessary.

Engineering Controls (Ventilation)

Use local exhaust ventilation when routinely heat sealing this product. Recommended ventilation is with a minimum capture velocity of 100 ft/min. (30 m/min.) at the point of vapor evolution. Refer to the current edition of Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

Other Protective Equipment

None necessary

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Film
Color	Dark Brown or Copper
State	Solid
Odor Characteristic	None

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See Section 5, Fire Fighting Measures

10. STABILITY AND REACTIVITY

Instability

This material is considered stable. However, avoid temperatures above 350°C, the onset of polymer decomposition. Thermal decomposition is dependent on time and temperature.

Hazardous Decomposition Products

None

Hazardous Polymerization

Product will not undergo hazardous polymerization.

Incompatibility

Lead azide and lead stiphante commonly used in high explosive detonators react violently with copper.

Reactivity:

Reacts and binds with polar gases such as Hydrogen sulfide (H2S), Ozone (O3), Carbonyl sulfide (COS), Sulfur Dioxide (SO2), Hydrogen chloride (HCl), Formic Acid, Acetic Acid.

11. TOXICOLOGICAL INFORMATION

Acute Data

No Toxicity data are available for this material

The information shown in Section 3, HAZARDS IDENTIFICATION is based on the toxicity profiles for similar materials or components present in this material.

12. ECOLOGICAL INFORMATION

This material is nonsoluble and not expected to present any environmental problems.

13. DISPOSAL CONSIDERATIONS

Procedure

No special requirements are necessary. Dispose of as ordinary solid waste. Pick up film for good "housekeeping" and to prevent a slipping hazard.

Incineration or landfill in compliance with federal, state and local regulations. Intercept resin will break down in an anaerobic landfill.

Product is recyclable as colored polyethylene.

14. TRANSPORT INFORMATION

US DOT Hazard Class NONREGULATED

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15. REGULATORY INFORMATION

Workplace Classification

This product is not considered hazardous under the OSHA Hazard Communication Standard (29CFR 1910.1200).

CERCLA Information (40CFR 302.4)

Because of the form in which copper is contained within the resin, releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act (SARA) Title III Section 304.

Waste Classification

When this product becomes a waste, it is classified as a non-hazardous waste under criteria of the Resource Conservation and Recovery Act (40 CFR 261).

United States

All components of this product except copper are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. However, the form in which copper is incorporated into the resin is not expected to present a toxic exposure or release problem.

16. OTHER INFORMATION

EMI Hazard Rating		Scale
Toxicity	0	4=EXTREME
Fire	1	3=HIGH
Reactivity	0	2=MODERATE
Special	-	1=SLIGHT
		0=INSIGNIFICANT

Ratings are based on EMI guidelines, and are intended for internal use.

ABBREVIATIONS:

- ACGIH = American Conference of Governmental Industrial Hygienists
- OSHA = Occupational Safety and Health Administration
- TLV = Threshold Limit Value
- PEL = Permissible Exposure Limit
- TWA = Time Weighted Average
- STEL = Short-Term Exposure Limit

The information contained herein relates only to the specific material identified. EMI believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. EMI urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

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PRODUCT: Evercoat SW-1
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