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Material Safety Data Sheet

[SPI # 05012-AB, 05012A-AB, 05012B-AB, 05012C-AB, 05085-AB, 05085A-AB, 05085B-AB, 05085C-AB; 3M® Copper Conducting Tapes](#)

Section 1: Identification

Date Effective..... January 8, 2009
 (most recent revision)

Chemical Name/Synonyms... Acrylic polymer with copper coated metal backing

Emergencies

Contacting CHEMTREC:

24 Hour Emergency Use Only #'s...

Worldwide phone: 1-(703)-527-3887

Worldwide FAX: 1-(703)-741-6090

Toll-free phone: 1-(800)-424-9300 USA only



Product or Trade Name.... SPI #
 05012-AB, 05012A-AB, 05012B-AB, 05012C-AB
 05085-AB, 05085A-AB, 05085B-AB, 05085C-AB

Synonyms..... Copper conducting tape.

Hazardous Material Information System USA	Health	0	National Fire Protection Association USA	
	Fire Hazard	0		
	Reactivity	0		
	Personal Protection			

NFPA Rating:

(estimated) Health: 0; Flammability: 0; Reactivity: 0

Section 2: Composition

Component Name	CAS #	Percent	EU #
Acrylic Polymer	9017-68-9	50-75	N/A
Copper Metal Backing	7440-50-8	25-50	231-159-6

Section 3: Hazard Identification

Emergency overview: Avoid inhaling thermal decomposition products and dust created by sanding, cutting, or grinding the product.

Appearance: Roll of tape, metal backing, clear adhesive.

Flash Point: N/A

Warning!

Target Organs: None.

Potential Health Effects

Eye: Contact with eyes is not expected during normal conditions of use.

Skin: No adverse health effects are expected from skin contact.

Ingestion: Ingestion is not a likely exposure route under normal usage conditions of this product.

Inhalation: No adverse health effects are expected from inhalation, unless the product is over heated and decomposition occurs. Cutting, grinding, or sanding this product can produce dust that may irritate the respiratory system.

Section 4: First Aid Measures

Eyes: No first aid measures are anticipated.

Skin: No first aid measures are anticipated.

Ingestion: No first aid measures are anticipated.

Inhalation: No first aid measures are anticipated.

Section 5: Fire Fighting Measures

General Information: Always wear full protective equipment including self containing breathing apparatus operating at positive pressure.

Auto Ignition Temperature: N/A

Flash Point: N/A

Flammability: N/A.

Hazardous Combustion Products: Carbon monoxide, carbon dioxide.

Unusual Fire/Explosion Hazards: None.

Extinguishing Media: Water spray, carbon dioxide.

Protective Measures: This product may emit irritating or toxic fumes under extreme temperatures or fires.

Section 6: Accidental Release Measures

Spills/Leaks: Not applicable, spills are not considered a hazard of this product.

Section 7: Handling and Storage

Handling: Always wear protective equipment appropriate to the task. Wash hands thoroughly after use.

Storage: Store at room temperature and under conditions recommended on product literature.

Section 8: Exposure Controls and Personal Protection

Engineering Controls: Ventilation should be adequate to prevent breathing of dust particles. If airborne contamination is to be exceeded, a NIOSH approved respirator in accordance with OSHA regulations should be employed: half-mask dust respirator.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Acrylic Polymer	None		None
Copper Metal Backing	0.2 mg/m ³		1 mg/m ³ TWA
	1 mg/m ³ TWA		100mg/m ³ IDHL
			0.1 mg/m ³ TWA
			1 mg/m ³ TWA

OSHA Vacated PEL: Copper, 0.1 mg/m³ TWA (fumes, dust, mists on Cu).

Personal Protective Equipment

Eyes: None required.

Skin: None required.

Clothing: None required.

Respirators: If airborne contamination is to be exceeded, a NIOSH approved respirator in accordance with OSHA regulations should be employed: half-mask dust respirator.

Section 9: Physical and Chemical Properties

Physical State: Solid.

Appearance: Roll of tape, metal backing, clear adhesive.

Odor: None.

pH: N/A

Vapor Pressure: N/A

Vapor Density: N/A

Evaporation Rate: N/A

Viscosity: N/A

Boiling Point: N/A

Freezing/Melting Point: N/A

Autoignition Temperature: N/A

Flash Point: N/A

Decomposition Temperature: N/A

Explosion Limits

Lower: N/A

Upper: N/A

Solubility in water: N/A

Specific Gravity/Density: N/A

Molecular Formula: N/A

Molecular Weight: N/A

Section 10: Stability and Reactivity

Chemical Stability: Stable.

Conditions to Avoid: None.

Incompatibility with Other Materials: None known.

Hazardous Decomposition of Products: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

Section 11: Toxicological Information

No toxicological information is available at this time.

Section 12: Ecological Information

No ecological information is available at this time.

Section 13: Disposal Considerations

Waste Disposal: In accordance with all local, state, and federal regulations. This product can be disposed in a sanitary landfill.

Section 14: Transport Information

US DOT Hazard Class: Not regulated.

IATA (for international shipments): Not regulated.

Section 15: Regulatory Information

United States

TSCA: CAS # 7440-50-8 is listed on the TSCA inventory.

TSCA Section 12b: None of the components of this product are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the components of this product have a Significant New Use Rule under TSCA.

Health & Safety Reporting List: None of the components of this product are on the Health & Safety Reporting List.

Chemical Test Rules: None of the components of this product are under a Chemical Test Rule.

CERCLA:: CAS # 7440-50-8: 5000 lb final RQ (no reporting of releases of this hazardous substance is required).

SARA Codes: CAS # 7440-50-8: Immediate, delayed, fire.

SARA Section 302 Extremely Hazardous Substances: None of the components of this product have a TPQ.

SARA Section 313: This product contains COPPER (CAS # 7440-50-8, 100%) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clear Air Act:

This product does not contain any hazardous air pollutants.

This product does not contain any Class 1 Ozone depleters.

This product does not contain any Class 2 Ozone depleters.

Clean Water Act: None of the components of this product are listed as Hazardous Substances under the Clean Water Act. CAS # 7440-50-8 is listed as a Priority Pollutant under the Clean Water Act. CAS # 7440-50-8 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA: None of the components in this product are considered highly hazardous by OSHA.

State (Individual states in the USA): CAS # 7440-50-8 can be found on the following state right to know lists:

California.

New Jersey.

Pennsylvania.

Minnesota.

Massachusetts.

European/International Regulations

European Labeling in According with EC Directives

Hazard Symbols: None.

Risk Phrases: None.

Safety Phrases:

S2 Keep out of the reach of children.

S20/21 When using do not eat, drink, or smoke.

S22 Do not breathe dust.

WGK (Water Danger/Protection): CAS # 7440-50-8: 0

Canada

WHMIS: This product has a WHMIS classification of D2B, B4. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

DSL: CAS # 7440-50-8 is specified on the DSL.

Canadian Ingredient Disclosure List: CAS # 7440-50-8 is listed on the Canadian Ingredient Disclosure List. CAS # 9017-68-9 is listed on the DSL list.

Section 16: Other Information

If this product should be used in ways that are outside of the intended applications in scanning electron microscope laboratories, and if it is going to be formulated into some other system, so that it becomes just another component of that other system, read the MSDS sheets for the other components before blending as the resulting mixture may have the hazards of all of its parts.

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute.

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