Hi-Tech Capping Gel
Material Safety Data Sheet

SECTION I – Product and Company Identification:

Product Identity:	HI-TECH CAPPING GEL		
Manufacturers Name:	Hi-Tech Epoxy Systems	Emergency Contact:	(800) 454-5530
	9070 Center Avenue	Date Prepared	10/01/06
	Rancho Cucamonga, CA 91730		
Prepared by:	Technical Services		

SECTION II – Hazardous Ingredients/Identity Information:

Product Class: Epoxy
Formulation Identification: Adhesive

HAZARDOUS COMPONENTS: Specific Chemical Identity: Common Name(s)

Chemical Name:	OSHA PEL:	ACGIH TLV:	STEL:	Approx. %
COMPONENT A:				
Bisphenol A Epoxy Resin				
CAS #25085-99-8	NE	NE	NE	>50%
Ethylene Glycol				
CAS #107-21-1	C 50 ppm	C 100 ppm	NE	<5%
Silica Quartz				
CAS #14808-60-7	NE	NE	NE	20% - 50%
COMPONENT B:				
n-aminoethylpiperazine				
CAS #140-31-8	NE	NE	NE	0 - 20%
Nonyl phenol-				
CAS #84852-15-3	NE	NE	NE	<50%
Liquid Polyamide Resin				
CAS #68082-29-1	NE	NE	NE	5-20%
Tri(dimethylaminomethyl)phenol				
CAS #90-72-2	NE	NE	NE	<10%
Silica Quartz				
CAS #14808-60-7	NE	NE	NE	20% - 50%
Benzyl Alcohol				
CAS #100-51-6	C 50 ppm	C 100 ppm	NE	<5%

SECTION III – Physical/Chemical Characteristics:

Boiling Point: Degrees F.	N/A	Specific Gravity (g/cc):	A:1.1 B:0.0
Vapor Pressure (mm Hg):	N/A	VOC Content:	3.53 g/l (when mixed)
Vapor Density (Air = 1):	N/A	Evaporation Rate	N/A
Solubility in Water:	Insoluble		
Appearance and Odor:	A: White paste, slight odor	B: Black paste, slight amine odor	

SECTION IV – Fire and Explosion Hazard Data:

Flash Point:	>200°F
Flammable Limits:	LEL: N/A UEL: N/A
Extinguishing Media:	Carbon Dioxide, Dry chemical, Water Spray, Foam
Special Fire Fighting Procedures:	Use a self contained breathing apparatus when fire involves chemicals.
Unusual Fire and Explosion Hazards:	None known. Thermal decomposition products can be formed.

SECTION V – Accidental Release Measures:

Avoid all personal contact, scoop up with spade and place in disposable metal container. Flush contaminated areas.

SECTION VI – Health Hazard Data:

Known Hazards: Part A: Skin and eye irritation. Sensitizer; **Part B:** Corrosive
Signs and Symptoms of Exposure: Part A: Eyes - Irritation. Corneal injury is not expected. Skin - Irritation. Can cause allergic skin reactions in susceptible individuals, e.g. itching, redness, swelling, etc. Inhalation – No ill effects expected. Heated vapors can cause irritation. **Part B:** Eyes - Irritation. Possible eye burns. Skin – Can cause irritation and skin burns. Inhalation - No ill effects expected. Heated vapors can cause irritation.
Medical Conditions Aggravated by Exposure: Skin, eye, and respiratory conditions.
Routes of Exposure: Dermal. Inhalation.

Carcinogenicity: IARC classifies crystalline silica as a Group I carcinogen based upon evidence among workers in industries where there has been long-term and chronic exposure (via inhalant) to silica dust. This product does not pose a dust hazard; therefore, this classification is not relevant.

SECTION VII – First Aid Measures:

Eyes:	Flush immediately with large amounts of water for at least 15 minutes; contact physician if symptoms persist.
Skin:	Remove epoxy from skin immediately with a dry cloth or paper towel. Wash area of contact thoroughly with soap and water. SOLVENTS SHOULD NOT BE USED because they carry the irritant into the skin. Launder contaminated clothing before reuse.
Inhalation:	If respiratory irritation occurs, go to fresh air. seek medical attention if symptoms persist.
Ingestion:	If conscious, give plenty of water; do not induce vomiting unless directed to by a physician. Call a physician.
Other:	Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If Sensitization occurs, future contact with the material should be avoided.

SECTION VIII – Stability and Reactivity:

Hazardous Polymerization: Will not occur.
Incompatibility: Strong acids, peroxides, and other oxidizing agents.
Hazardous Decomposition Products: Thermal decomposition can yield CO, CO^2 and organic Nitrogen compounds.
Conditions to Avoid: Exposure to excessive heat and storage above 95°F will shorten shelf life.

SECTION IX – Exposure Control/Personal Protection:

Respiratory Protection:	None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.
Ventilation (General):	Natural or mechanical induced fresh air movements.
Protective Gloves:	Cloth or impermeable (neoprene or rubber) gloves.
Eye Protection:	Wear splash proof chemical goggles.
Other Protective Equipment:	Wear appropriate apparel to prevent skin contact.
Work/Hygienic Practices:	Remove and wash contaminated clothing. As with all commercial and industrial products, always wash hands before eating or smoking.

SECTION X – Handling and Storage:

Avoid contact with eyes, skin and clothing. Avoid prolonged inhalation of vapors. Use with adequate ventilation. Wash thoroughly after handling. Store in a cool, dry location, out of direct rays from the sun. Do not allow the material to freeze. Recommended storage temperature range in between 40°F and 95°F.

SECTION XI – Toxicological Information:

For detailed toxicological information on the components of this material, contact the address listed in Section 1 of this MSDS.

SECTION XII – Disposal Considerations:

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

SECTION XIII – Transport Information:

DOT Shipping Information: (Cartridge) – Consumer commodity, ORM-D; (Bulk) – Corrosive Solids, NOS (contains aminoethylpiperazine, nonylphenol), Class 8, UN 1759, PG III.
IATA/ICAO Shipping Name: (Cartridge and Bulk) – Corrosive Solids, NOS (contains aminoethylpiperazine, nonylphenol), Class 8, UN 1759, PG III.

SECTION IVX – Regulatory Information:

Hazard Communication: This MSDS has been prepared in accordance with the federal OSHA Hazard Communication Standard.
EPA Waste Code(s): Not regulated by EPA as a hazardous waste.
HMIS Codes: A: Health 2, Flammability 1, Reactivity 0, PPE B; **B:** Health 3, Flammability 1, Reactivity 0, PPE B.
SARA Title III, Section 313: This product contains 0 – 2% ethylene glycol which is subject to reporting under Section 313 of SARA Title III.
TSCA Inventory Status: Chemical components listed on TSCA inventory.
Abbreviations: PEL = OSHA Permissible Exposure Limit. **TLV** = ACGIH Threshold Limit Value. **C** = Ceiling. **STEL** = Short Term Exposure Limit. **NE** = None Established. **NA** = Not Applicable. **ppm** = parts per million.
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