Section I - Product and Company Identification

Product Name: **TRI EPOXY**
Chemical Name: EPOXY

Family: Resin Die Material
Product # Starting with **5920400**
Product Use: Dental Models
Formula: Proprietary Mixture

Manufacturer: Keystone Industries / TRIDYNAMICS
616 Hollywood Ave, Cherry Hill, NJ 08002
Emergency Phone Numbers: (800)-535-5053
Information Contacts: (856)-663-4700

Section II – Composition Information on Ingredients

Chemical Identity	CAS Numbers	Percent (by wt)	Exposure Limits OSHA TWA/STEL	ACGIH TWA/STEL	Carcinogen IARC/NTP/OSHA
Phenol, 4 4' (1-Methylethylidine) BIS	25085-99-8	<60	N/E	N/E	N/E
Aluminum Oxide	1344-28-1	<50	N/E	NE	N/E
Iron Oxides; Black, Blue, Green	Mixture	<1	N/E	N/E	N/E

N/E - None Established N/DA- No Data Available N/A-Not Applicable N/R - Not Reviewed

Section III - Hazards Identification

EMERGENCY OVERVIEW

- May cause skin irritation
- May cause eye irritation
- Avoid prolonged or repeated breathing of fumes, mist and dust of cured material

Potential Health Effects, Signs and Symptoms of Exposure:

Primary Route of Entry	Skin contact; Eye contact; Ingestion
Eye	Direct contact with this material may cause eye irritation.
Skin	Contact may cause skin sensitization, an allergic reaction which becomes evident on re-exposure.
Ingestion	Single dose oral toxicity is low. Swallowing a small amount during normal handling is not likely to cause harmful effects, swallowing large amount may be harmful.
Inhalation	Low volatility makes vapor inhalation unlikely. Aerosol can be irritating.
Sub-Chronic Effects	No significant toxicological effects were observed in rats exposed by the oral route.

Section IV - First Aid Measures

First Aid for Eye:	Immediately flush eyes with water for 15 min. Get medical attention.
First Aid for Skin:	Wash skin with soap & water. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists. Solvents should not be used to clean hands or skin because it may cause material to penetrate faster into the skin.
First Aid for Inhalation:	Remove to fresh air. Keep warm and quiet. If not breathing, give artificial respiration.
First Aid for	Do not induce vomiting. Give victim one or two glasses of water. Seek medical

Ingestion: attention.

Section V - Fire Fighting Measures

Flash Point (degrees F/degrees C)	Flammable Limit (vol%)	Auto-ignition Temperature (vol%)
480 degrees F	N/A	N/A

Method

Extinguishing Media: Use carbon dioxide, foam, dry chemical or water fog to extinguish fire.

Fire Fighting Instructions: Use water spray to cool fire-exposed containers. Use water spray to disperse vapors if the spill or leak has not ignited.

Unusual Hazards: This material may polymerize if container is exposed to high heat (during fire). Polymerization increases pressure of the container and may result in violent rupture.

Section VI - Accidental Release Measures

Spill or Release Procedures -

- For small spills, absorb with cloth or other inert material. For large spills, dike to prevent spill from contaminating soil, sanitary sewer and storm water severs. Clean up with inert absorbent material and dispose of following federal, state and local regulations.

Section VII - Handling and Storage

Handling
- Avoid contact with eyes, skin and clothing. Wash hands after using these materials. Follow standard industrial hygiene procedures.

Storage
- Keep container closed when not in use. Warm storage (130 degrees F) is recommended.

Explosion Hazard
- Possible polymerization due to exposure to high heat increases pressure of the container and may result in violent rupture.

Section VIII - Exposure Controls / Personal Protective Equipment

Exposure Controls: Good general ventilation should be sufficient to control airborne levels of vapors.

Personal Protective Equipment:

General: None

Eye/ Face Protection: Safety glasses with side shields are recommended.

Skin Protection: Wear chemical resistant gloves such as polyvinyl alcohol.

Respiratory Protection: If material generates fumes when heated, use NIOSH/MSHA approved respirators.

Section IX - Physical and Chemical Properties

Appearance	Odor & Odor Threshold	pH	Specific Gravity	Viscosity	% Volatile
Green, Pink, Blue Thick, creamy material	Odorless (unless heated)	N/A	1.15-1.5	>15000	Non volatile

Boiling Point/ Freezing Point	Decomposition Temperature	Octanol/Water Partitioning Coefficient Log Po/w	Vapor Pressure:	Vapor Density	Evaporation Rate	Ignition	Solubility In Water
>500 degrees F	N/E	N/E	0.03 mm Hg	N/E	N/A	N/A	N/E

Section X - Stability and Reactivity

Stability:
Stable at normal temperature & storage conditions.

Hazardous Decomposition Products:
Thermal decomposition may produce various hydrocarbons and irritating, acrid vapors.

Conditions to Avoid:
Contamination by acids, strong bases and amines.

Incompatibility (Materials to Avoid):
Avoid contact with strong oxidizing agents, mineral acids & bases and amines.

Hazardous Polymerization:
Will not occur unless exposed to high heat. Reaction with some curing agents may produce considerable heat. Run-a-way cure my char and decompose resin systems.

Section XI - Toxicological Information

Acute Oral Toxicity	Dermal Toxicity	Acute Inhalation Toxicity	Irritation - skin	Irritation - Eye
Oral LD-50- (rat) >5,000 mg/kg	Dermal LD-50 (rabbit) 20,000 mg/kg	N/E	N/E	N/E
Sensitization		**Mutagenicity**		**Sub-chronic Toxicity**
N/E		N/E		N/E

Section XII - Ecological Information

Ecotoxicological Information

Acute Toxicity to Fish	Acute Toxicity to Invertebrates	Acute Toxicity to Algae	Bioconcentration	Toxicity to Sewage Bacteria
LC50/EC50 1-10mg	N/E	N/E	100-3000 Log/Pow	N/E

Chemical Fate Information

Biodegradability	Below detectable limits.
Chemical Oxygen Demand	2.35 p/p. The atmosphere half life is 1-92 hr.

Section XIII - Disposable Concentrations

- Waste Disposal Method: Disposal of this material is not regulated by RCRA. Dispose according to local, state and federal regulations.

Section XIV - Transport Information

- DOT(USA): Class Not regulated
- ICAO Status: Not Regulated
- IMDG Status: Class not regulated

Section XV - Regulatory Information

US Federal Regulations

Clean Air Act: HAP/ODS	This product contains the following hazardous air pollutants (HAP's) as defined by the U. S. Clean Air Act: • None This product does not contain any Class1 or Class 2 ODS.
Clean Water Act:	This product contains the following Hazardous Substances as defined by the CWA: • None This product contains substances that are a Priority Pollutant or Toxic Pollutant under the CWA: • None
FDA: Food Packaging Status	This product has not been cleared by the FDA for use in food packaging and/or other applications as an indirect food additive.
Occupational Safety and Health Act	This product is considered to be a hazardous chemical under the OSHA Hazard Communication Standard. Its hazards are: • Immediate (acute) health hazard
RCRA	This product is not considered to be a hazardous waste under RCRA (40 CFR 261) RCRA Code: • None
SARA Title III: Section 302 (TPQ)	This product contains no chemicals regulated under Sec. 302 as extremely hazardous substances that carry a TPQ.
SARA Title III: Section 302 (RQ)	This product does not contain chemicals regulated under Section 304 as extremely hazardous chemicals for emergency release notification ("CERCLA" List). • None
SARA Title III: Section 311-312:	This product is considered hazardous under the OSHA Hazard Communication Standard and is regulated under Section 311-312 (40 CFR 370). Its hazards are: • Immediate (acute) health hazard
SARA Title III: Section 313:	This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372: • None
TSCA Section 8(b): Inventory: TSCA Significant New Use Rule:	This product contains no chemicals listed on the TSCA inventory or otherwise complies with TSCA premanufacture notification requirements. None of the chemicals in this material have a SNUR under TSCA.

State Regulations

CA Right-to-Know Law: California No Significant Risk Rule:	NONE NONE
MA Right-to-Know Law:	NONE
NJ Right-to-Know Law:	NONE
PA Right-to-Know Law:	NONE
FL Right-to-Know Law:	NONE
MN Right-to-Know Law:	NONE

International Regulations

CDSL: Canadian Inventory (on Canadian Transitional List)	Bisphenol A epoxy, CAS# 25085-99-8 DSL regulatory status: Included WHMIS: DB2: Toxic
EINECS: European Inventory: 	• HAZARD SYMBOLS: **Xi**

Section XVI - Other Information

Hazard Rating System	HMIS:	Health 1 /Flammability 0/ Reactivity 1
	NFPA:	Health 1 /Flammability 0/ Reactivity 1

Date:02/21/00
Supersedes Date: 7/99

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