PERMATEX INDUSTRIAL	CORPORATION	07/02/97
	ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	
	MATERIAL SAFETY DATA SHEET	Page 01 of 05

Metal Repair Stik 82728

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Metal Repair Stik		
Item No.:	82728	Part of Kit:	21724
Product Type:	Ероху		

# 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Epoxy resin Polymercaptan Substituted aminophenol Benzyl alcohol	25068-38-6 Proprietary 90-72-2 100-51-6	10-40 5-20 1-10 0.1-5

Ingredients which have exposure limits

Exposure Limits (TWA)	ACGIH	OSHA	OTHER
Ingredients	(TLV)	(PEL)	
Exposure Limits (STEL)	ACGIH	OSHA	
Ingredients	(TLV)	(PEL)	

### 3. HAZARDS IDENTIFICATION

Toxicity:	May cause irritation and sensitizati sensitive skin and mild irritation t May cause irritation if swallowed.			
Primary Routes of Entry: Signs and symptoms	Skin contact			
of Exposure:	Prolonged or repeated exposure may c sensitization.	ause	alle	rgic
Existing Conditions Aggravated by Exposure:	Dermatitis and skin allergy			
Li	terature Referenced	Car	cinog	en
Ingredients Ta	arget Organ and Other Health Effects	NTP	IARC	OSHA
Epoxy resin	ALG IRR	NO	NO	NO
Polymercaptan	No Data	NO	NO	NO
Substituted aminophenol	IRR	NO	NO	NO
Benzyl alcohol	ALG COR IRR	NO	NO	NO

	ATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	07/02/97
	MATERIAL SAFETY DATA SHEET	Page 02 of 05
Product Name: Item No.:	Metal Repair Stik 82728	
3. HAZARDS IDENTIFICATIO	Ν	(continued)
Abbreviations		
ALG Allergen IRR Irritant	COR Corrosive	
4. FIRST AID MEASURES		
Ingestion:	Do not induce vomiting. Keep individual calm. Obtain medical attenion. Remove to fresh air. If symptoms persist, obtain medical attention. Wash thoroughly with soap and water. Flush at least 15 minutes with clear water. Obtain medical attention.	
Inhalation: Skin Contact: Eye Contact:		
5. FIRE FIGHTING MEASURE	S	
Flash Point: Recommended Extinguishing Agents: Hazardous Products formed by Fire or Thermal Decomp	Carbon dioxide, foam, dry chemical Aldehydes; acids; oxides of carbon, s and nitrogen; ammonia; other unknown	-
Unusual Fire or Explosion Hazards:	toxic contaminants None	
Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper	Not available Not available	
6. ACCIDENTAL RELEASE ME	ASURES	
Steps to be taken in case of spill or leak:	Avoid personal contact. Eliminate ign Ventilate area. Dike, contain and abs clay or other suitable material. (For pump to storage/salvage vessels. Soak inert absorbent such as clay, sand, o suitable material anmd dispose of pro area with water to remove trace resid spill from entering drainage/sewer sy waterways, and sufacr waters.	orb with clay large spills up with an or other operly. FLush lue.) Prevent

PERMATEX INDUSTRIAL CORPORATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100

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# MATERIAL SAFETY DATA SHEET Page 03 of 05

Product Name:	Metal Repair Stik
Item No.:	82728

7. HANDLING AND STORAGE

Safe Storage:	Store in a cool, dry area away from high temperatures and flames.
(Contact Loctite Customer Handling:	Service 1-800-243-4874 for shelf Life information) Avoid contact with skin, eyes,or clothing. Wash thoroughly with soap and water after using and particularly before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing and protective gear before reuse. Discard contaminated leather articles. Handle mixed resin and hardener in accordance with the potential hazard of the curing agent used. Provide appropriate ventilation/respiratory protection against decomposition products (see Section 10) during welding/flame cutting operations and particulates (silica) during sanding/grinding operations.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:	Safety glasses or goggles.
Skin:	Polyethylene gloves.
Ventilation:	General mechanical is satisfactory. If odor is disagreeable, use local exhaust.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor:	Resin: Grey putty; Hardener: Black putty Slight mercaptan
Boiling Point:	Not available
pH:	Does not apply
Solubility in Water:	Negligible
Specific Gravity	1.9
Volatile Organic Compound	
(EPA Method 24)	1.25%; 23.8 grams per liter
Vapor Pressure:	Nil at 78°F
Vapor Density:	More than 1
Evaporation Rate	
(Ether = 1)	Not available

#### 10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	Will not occur
Incompatibility:	Strong oxidizing agents.
Conditions to Avoid:	Exposure to open flames or excessive heat.

PERMATEX INDUSTRIAL CORPO	RATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	07/02/97
	MATERIAL SAFETY DATA SHEET	Page 04 of 05
Product Name: Item No.:	Metal Repair Stik 82728	
10. STABILITY AND REACTI	VITY	(continued)
Hazardous Decomposition Products (non-thermal):	Aldehydes; acids; oxides of carbon nitrogen; other unknown and potent contaminants.	
11. TOXICOLOGICAL INFORM	ATION	
	Acure oral effects: LD50 more than (rat) Acure dermal effects: Slight irrit Eye irritation: Slight irritant (r	ant (rabbit)
12. ECOLOGICAL INFORMATI	ON	
	No data available	
13. DISPOSAL CONSIDERATI	ONS	
Recommended methods of disposal: EPA Hazardous Waste	Incinerate following EPA and local NH - Not a RCRA Hazardous Waste Ma	-
Number		terial
14. TRANSPORTATION INFOR	MATION	
DOT (49 CFR 172) Domestic Ground Transpor Proper Shipping Name: Hazard Class or		
Division: Identification Number: Marine Pollutant:	Unrestricted None None	
IATA Proper Shipping Name: Class or Division: UN or ID Number:	Unrestricted Unrestricted None	
15. REGULATORY INFORMATI	ON	
CA Proposition 65:	No California Proposition 65 chemi to be present.	cals are known
16. OTHER INFORMATION		
Estimated NFPA(R) Code: Health Hazard: Fire Hazard: Reactivity Hazard:	1 1 0	

PERMATEX INDUSTRIAL CORPOR	07/02/97	
	MATERIAL SAFETY DATA SHEET	Page 05 of 05
Product Name: Item No.:	Metal Repair Stik 82728	
16. OTHER INFORMATION		(continued)
Specific Hazard:	Does not apply	
Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:	1* 1 Ø See Section 8.	
NFPA is a registered HMIS is a registered	trademark of the National Fir trademark of the National Pai	
Prepared By: Title: Company: (24hr.) Phone: Revision Date:	Stephen Repetto Research Chemist, Health and Loctite Corp., 1001 Tr Br Cr, (860) 571-5100 November 13, 1996	

PERMATEX INDUSTRIAL CORPOR	ATION ROCKY HILL, CONNECTIC TELEPHONE: (860) 571-		07/02/97
	MATERIAL SAFETY DATA	SHEET	Page 01 of 06
Rapid Metal(TM) Fast Cure 82730	Steel-Filled Epoxy Pa	ste	
1. CHEMICAL PRODUCT AND	COMPANY IDENTIFICATIO	N	
Product Name: Item No.: Product Type:	Rapid Metal(TM) Fast 82730 Epoxy		d Epoxy Paste 1724
2. COMPOSITION, INFORMAT	ION ON INGREDIENTS		
Ingredients	CAS No.	%	
RESIN			
Epoxy resin	25068-38-6	40-45	
Calcium carbonate	471-34-1	30-40	
Barium sulfate	7727-43-7	10-15	
SILICA, AMORPHOUS,			
precipitated	112926-00-8	1-5	
TITANIUM DIOXIDE	13463-67-7	1-5	
HARDENER		20.45	
Calcium carbonate	1317-65-3	30-45	
Polymercaptan Barium sulfate	Proprietary 7727-43-7	30-35 10-15	
Iron oxide	1309-38-2	10-15	
DIETHYLENETRIAMINE	111-40-0	5-10	
Heptakis(dipropyleneglycol		J-10	
triphosphate	13474-96-9	1-5	
PHENOL, 4,4'-ISOPROPYLIDEN SILICA, AMORPHOUS,		1-5	
precipitated	112926-00-8	1-3	

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	-	GIH _V)		OSHA (PEL)	OTHER
RESIN					
Calcium carbonate	10	mg/m3	dust	15 mg/m3 dust 5 mg/m3 respir.	None
Barium sulfate	10	mg/m3	dust	10 mg/m3 dust 5 mg/m3 respir.	None
SILICA, AMORPHOUS,					
precipitated	10	mg/m3	TWA	6 mg/m3 TWA	None
TITANIUM DIOXIDE	10	mg/m3	dust	15 mg/m3 dust 5 mg/m3 resp	None
HARDENER					
Calcium carbonate	10	mg/m3	TWA	15 mg/m3 dust	None

dust

PERMATEX INDUSTRIAL CORPO	ROCKY	HILL, CONNECTIC HONE: (860) 571-			07	7/02/97
	MATER	IAL SAFETY DATA	SHEET	Pa	age 02	2 of 06
Product Name: Item No.:	Rapi 8273	• •	Cure Steel-Fill	ed Ep	boxy F	Paste
2. COMPOSITION, INFORMA	TION O	N INGREDIENTS			(cont	tinued)
Barium sulfate		10 mg/m3 dust	10 mg/m3 dust	None	5	
Iron oxide		5 mg/M3 (Fe)	5 mg/m3 respir. 10 mg/M3 (Fe)	None		
DIETHYLENETRIAMINE		1 ppm skin 4.2mg/m3 skin	particulate 1 ppm TWA 4mg/m3	None		
PHENOL, 4,4'-ISOPROPYLIDE SILICA, AMORPHOUS,	NEDI-	None	None	10 r	ng/m3	
precipitated		10 mg/m3 TWA	6 mg/m3 TWA	None	2	
Exposure Limits (STEL) Ingredients		ACGIH (TLV)	OSHA (PEL)			
RESIN HARDENER						
3. HAZARDS IDENTIFICATI	ON					
Toxicity: Primary Routes of Entry:	resp corn of v sens Inge	iratory tract. M eal injury resul ision including itization of ski	t. May irritate ay cause skin bu ting in permanen blindness. May c n and respirator burns of mouth a alation	rns a t imp ause y tra	and Dairme act.	
Signs and symptoms of Exposure:			on or injury. Al			
Existing Conditions Aggravated by Exposure:	•	onses such as se known	nsitization or d	ermat	titis	•
L	iterat	ure Referenced Organ and Other	Health Effects		cinoge IARC	
RESIN						
Epoxy resin		ALG IRR		NO	NO	NO
Calcium carbonate Barium sulfate		NUI LUN		NO NO	NO NO	NO NO
SILICA, AMORPHOUS,		LUN		NU	NU	NU
precipitated		NUI		NO	NO	NO
TITANIUM DIOXIDE HARDENER		AC4 IRR NUI		NO	NO	NO
Calcium carbonate		NUI		NO	NO	NO
Polymercaptan		No Data		NO	NO	NO
Barium sulfate		LUN		NO	NO	NO
Iron oxide		No Data		NO	NO	NO
file.///C./Mah/USD/leatite 00700 htm						

DIETHYLENETRIAMINE

Heptakis(dipropyleneglycol)-

ALG IRR

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PERMATEX INDUSTRIAL CORPOR	ATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100		Ø	7/02/97
	MATERIAL SAFETY DATA SHEET	Ρ	age 0	3 of 06
Product Name: Item No.:	Rapid Metal(TM) Fast Cure Steel-Fill 82730	ed E	роху	Paste
3. HAZARDS IDENTIFICATIO	Ν		(con	tinued)
PHENOL, 4,4'-ISOPROPYLIDEN SILICA, AMORPHOUS,	No Data EDI- ALG IRR NUI	NO NO NO	NO NO NO	NO NO NO
Abbreviations	s human carc. ALG Allergen LUN Lung			
4. FIRST AID MEASURES				
Ingestion: Inhalation: Skin Contact: Eye Contact:	Do not induce vomiting. Keep individ Obtain medical attention. Does not apply Wash with soap and water. Flush at least 15 minutes with water medical attention.			
5. FIRE FIGHTING MEASURE	S			
Recommended Extinguishing Agents: Hazardous Products formed	Before use, amine vapors may be evol temperatures; oxides of carbon; unid	ved	at hi	
Unusual Fire or Explosion Hazards:	organic compounds. None			
Explosive Limits: (% by volume in air)Lower (% by volume in air)Upper	Not available Not available			
6. ACCIDENTAL RELEASE ME	ASURES			
Steps to be taken in case of spill or leak:	Scrape up material and store in closuuntil disposal.	ed c	ontai	ner

PERMATEX INDUSTRIAL CORPOR	ναττον	07/02/97
	ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	07,02,57
	MATERIAL SAFETY DATA SHEET	Page 04 of 06
Product Name: Item No.:	Rapid Metal(TM) Fast Cure Steel-Filled 82730	Epoxy Paste
7. HANDLING AND STORAGE		
Safe Storage: (Contact Loctite Customer Handling:	Store in a cool, dry area. Service 1-800-243-4874 for shelf Life Avoid skin contact. Keep away from eye Do not breath vapors.	
8. EXPOSURE CONTROLS, PE	RSONAL PROTECTION	
Eyes: Skin: Ventilation:	Safety glasses or goggles. Rubber or plastic gloves. Sufficient to maintain vapor concentra below TLV.	ition
	See Section 2 for Exposure Limits.	
9. PHYSICAL AND CHEMICAL	PROPERTIES	
Appearance: Odor: Boiling Point: pH: Solubility in Water: Specific Gravity Volatile Organic Compound (EPA Method 24) Vapor Pressure: Vapor Pressure: Vapor Density: Evaporation Rate (Ether = 1)	Resin: Black; Hardener: Beige Resin: Mild; Hardener: Moderate More than 300°F Does not apply Insoluble Resin: 1.80; Hardener: 1.81 Resin: 4.94%; 889 grams per liter Hardener: 0%; 0 grams per liter Not available Not available	
10. STABILITY AND REACTIV	/ITY	
Stability: Hazardous Polymerization: Incompatibility: Conditions to Avoid: Hazardous Decomposition	Stable Will not occur Strong oxidizers, acids, chlorinated h Not available	ydrocarbons.
Products (non-thermal):	None	

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

# 12. ECOLOGICAL INFORMATION

No data available

PERMATEX INDUSTRIAL CORPO	RATION 07/02/97 ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100
	MATERIAL SAFETY DATA SHEET Page 05 of 06
Product Name: Item No.:	Rapid Metal(TM) Fast Cure Steel-Filled Epoxy Paste 82730
13. DISPOSAL CONSIDERATIO	DNS
Recommended methods of disposal: EPA Hazardous Waste	Incinerate following EPA and local regulations.
Number	D005 - May be a TCLP waste per 40CFR 261.24/Barium
14. TRANSPORTATION INFORM	MATION
DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name:	t Consumer Commodity (Not more than four liters); Corrosive liquids, basic, organic, n.o.s. (Contains diethylenetriamine) (More than four liters)
Hazard Class or Division: Identification Number:	ORM-D (Not more than four liters); Class 8, Packing Group III (More than four liters) None (Not more than four liters);
Marine Pollutant:	UN 3267 (More than four liters) None
IATA Proper Shipping Name:	Corrosive liquids, basic, organic, n.o.s. (Contains diethylenetriamine)
Class or Division: UN or ID Number:	Class 8, Packing Group III UN 3267
15. REGULATORY INFORMATIO	DN
CA Proposition 65:	Warning: This product contains a chemical known to the State of California to cause cancer. Epichlorohydrin
16. OTHER INFORMATION	
Estimated NFPA(R) Code: Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:	2 1 0 Does not apply
Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: Reactivity Hazards:	2 1 0

Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn. HMIS is a registered trademark of the National Paint and Coatings Assn.

PERMATEX INDUSTRIAL CORPO	RATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	07/02/97
	MATERIAL SAFETY DATA SHEET	Page 06 of 06
Product Name: Item No.:	Rapid Metal(TM) Fast Cure Ste 82730	eel-Filled Epoxy Paste
16. OTHER INFORMATION		(continued)
Prepared By: Title: Company: (24hr.) Phone: Revision Date:	Jean Tobbe Environmental Health & Safety Loctite Corp., 1001 Tr Br Cr, (860) 571-5100 April 15, 1997	•

PERMATEX INDUSTRIAL CORPO	RATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	07/02/97
	MATERIAL SAFETY DATA SHEET	Page 01 of 04

## PERMASTEX POXY POUCH RESIN RESIN 82725

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	PERMASTEX POXY POUCH	RESIN	
Item No.:	RESIN 82725	Part of Kit:	21724
Product Type:	Epoxy adhesive		

# 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Epoxy resin Epoxy resin Epoxy resin Epoxy resin	26142-30-3 25068-38-6 28906-96-9 25085-99-8	10-15 3-85 3-5 0-80

## Ingredients which have exposure limits

Exposure Limits (TWA)	ACGIH	OSHA	OTHER
Ingredients	(TLV)	(PEL)	
Exposure Limits (STEL)	ACGIH	OSHA	
Ingredients	(TLV)	(PEL)	

### 3. HAZARDS IDENTIFICATION

Toxicity:	Possible skin and eye irritant.May on eye injury. Possible sensitizer.	ause	skin	or
Primary Routes of Entry: Signs and symptoms	None known			
of Exposure:	May cause dermatitis or sensitization contact. Heated vapors may cause hea dizziness, or respiratory irritatior	adach	•	0
Existing Conditions Aggravated by Exposure:	Allergy, eczema, skin conditions.			
	Literature Referenced	Car	cinog	en
Ingredients	Target Organ and Other Health Effects	NTP	IARC	OSHA
Epoxy resin	ALG IRR	NO	NO	NO

Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	No Data	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO

PERMATEX INDUSTRIAL CORPO	DRATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100	07/02/97
	MATERIAL SAFETY DATA SHEET	Page 02 of 04
Product Name: Item No.:	PERMASTEX POXY POUCH RESIN RESIN 82725	
3. HAZARDS IDENTIFICAT	CON	(continued)
Abbreviations		

ALG Allergen

IRR Irritant

### 4. FIRST AID MEASURES

Ingestion:	Do not induce vomiting. Keep individual calm.
Inhalation:	Obtain medical attention. Remove to fresh air. If symptoms persist, obtain
	medical attention.
Skin Contact:	Wash with soap and water.
Eye Contact:	Flush at leat 15 minutes with water. Obtain
	medical attention.

# 5. FIRE FIGHTING MEASURES

Flash Point: Recommended	More than 200°F Method: Tag Closed Cup
Extinguishing Agents: Hazardous Products formed	Carbon dioxide, foam, dry chemical
by Fire or Thermal Decomp	Phenolics, oxides of carbon, hydrogen chloride, aldehydes
Unusual Fire or Explosion Hazards:	None
Explosive Limits: (% by volume in air)Lower	Not available
(% by volume in air)Upper	
6. ACCIDENTAL RELEASE ME	ASURES
Steps to be taken in case of spill or leak:	Soak up with an inert absorbent. Store in a closed container until disposal.
7. HANDLING AND STORAGE	
Safe Storage:	Store below 100°F

(Contact Loctite CustomerService 1-800-243-4874 for shelf Life information)Handling:Avoid prolonged skin contact. Keep away from eyes.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes:	Safety glasses or goggles.
Skin:	Rubber or plastic gloves.
Ventilation:	Not normally necessary, but mechanical and local

MATERIAL SAFETY DATA SHEET

PERMATEX INDUSTRIAL CORPORATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100 07/02/97

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Product Name: PERMASTEX POXY POUCH RESIN Item No.: RESIN 82725

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

(continued)

exhaust ventilation may be desirable for prolonged use in a confined area.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear water white to amber liquid
Odor:	Mild
Boiling Point:	More than 300°F
pH:	Does not apply
Solubility in Water:	Slight
Specific Gravity	1.13-1.17
Volatile Organic Compound	
(EPA Method 24)	0.765%; 8.64 - 8.95 grams per liter
Vapor Pressure:	Less than 5mm at 80°F
Vapor Density:	Not available
Evaporation Rate	
(Ether = 1)	Not available

#### 10. STABILITY AND REACTIVITY

Stability:StableHazardous Polymerization:Will not occurIncompatibility:Oxidizing agents, bases, acids, amines, mercaptansConditions to Avoid:Not availableHazardous DecompositionProducts (non-thermal):None

11. TOXICOLOGICAL INFORMATION

See Section 3.

#### 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: EPA Hazardous Waste Number

Incinerate following EPA and local regulations. NH - Not a RCRA Hazardous Waste Material

PERMATEX INDUSTRIAL CORPO	RATION 07/02/97 ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100
	MATERIAL SAFETY DATA SHEET Page 04 of 04
Product Name: Item No.:	PERMASTEX POXY POUCH RESIN RESIN 82725
14. TRANSPORTATION INFOR	MATION
DOT (49 CFR 172) Domestic Ground Transpor Proper Shipping Name: Hazard Class or Division: Identification Number: Marine Pollutant: IATA Proper Shipping Name: Class or Division: UN or ID Number:	Unrestricted Unrestricted None None
15. REGULATORY INFORMATI	ON
CA Proposition 65:	Warning: This product contains a chemical known to the State of California to cause cancer. Teaces of epichlorohydrin
16. OTHER INFORMATION	
Estimated NFPA(R) Code: Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:	1 1 0 Does not apply
Estimated HMIS(R) Code: Health Hazard: Flammability Hazard: Reactivity Hazards: Personal Protection:	1* 1 0 See Section 8.
NFPA is a registered HMIS is a registered	
Prepared By: Title: Company:	Stephen Repetto Research Chemist, Health and Safety Loctite Corporation

/	1001 Trout Brook Crossing,	Rocky Hill CT 06067
(24hr.) Phone:	(860) 571-5100	
Revision Date:	February 26, 1997	Revision: 0002

PERMATEX INDUSTRIAL CORPOR	ATION ROCKY HILL, CONNECTI	CUT 06067	07/02/97
	TELEPHONE: (860) 571		
I	MATERIAL SAFETY DATA	SHEET	Page 01 of 04
HARDENER 82725 HARDENER 82725			
1. CHEMICAL PRODUCT AND	COMPANY IDENTIFICATI	CON	
Item No.: Product Type:	HARDENER 82725 Epoxy hardener	Part of Kit:	21724
2. COMPOSITION, INFORMAT	ION ON INGREDIENTS		
Ingredients	CAS No.	%	
Polymercaptan	Proprietary		
Substituted aminophenol Nonylphenol	90-72-2 25154-52-3	5-10 3-5	
Heptakis(dipropyleneglycol			
triphosphate	13474-96-9	1-3	
Ingredients which have	exposure limits		
Exposure Limits (TWA)	ACGIH	OSHA	OTHER
Ingredients	(TLV)	(PEL)	
Exposure Limits (STEL)	ACGIH	OSHA	
Ingredients	(TLV)	(PEL)	
3. HAZARDS IDENTIFICATIO	N		

## 3. HAZARDS IDENTIFICATION

Toxicity: Skin and eye irritant. Possible respiratory irritant. The aminophenol can cause severe irritation and may be corrosive on prolonged contact. It may be a sensitizer. It can also be corrosive to eye tissue leading to permanent injury including blindness. It may irritate the respiratory tract and may cause delayed lung damage upon overexposure to fumes or vapors. It can also cause fatigue, muscular weakness, labored breathing, or gastrointestinal irritation if

7/23/2021	loctite-82728.htm			
Primary Routes of Entry: Signs and symptoms of Exposure: Existing Conditions Aggravated by Exposure:	<pre>swallowed. The relatively low conce the aminophenol in the product may m or all of these effects. Skin, ingestion, inhalation. Eye, skin, respiratory, or gastroint irritation. It is possible that suc may be severe and lead to burns. Al reactions may occur. Skin, eye, lung conditions.</pre>	inim esti	ize s nal ritat	ome
	ATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100		e	07/02/97
	MATERIAL SAFETY DATA SHEET	Ρ	age Ø	02 of 04
Item No.:	HARDENER 82725			
3. HAZARDS IDENTIFICATIO	N		(cor	tinued)
	terature Referenced Irget Organ and Other Health Effects		cinog IARC	gen COSHA
Polymercaptan Substituted aminophenol Nonylphenol Heptakis(dipropyleneglycol triphosphate	No Data	NO NO NO	NO NO NO	NO NO NO
Abbreviations				
ALG Allergen IRR Irritant	COR Corrosive			
4. FIRST AID MEASURES				
Ingestion:	Do not induce vomiting. Keep individ	lual		
Inhalation:	calm. Obtain medical attention. Remove to fresh air. If symptoms per	ersis	t, ob	otain
Skin Contact: Eye Contact:	medical attention. Wash with soap and water. Flush at least 15 minutes with water medical attention.	•. Ob	tain	
5. FIRE FIGHTING MEASURE	S			
Flash Point: Recommended Extinguishing Agents: Hazardous Products formed	More than 200°F Method: Tag Carbon dioxide, foam, dry chemical			
by Fire or Thermal Decomp	Oxides of carbon, sulfur, and phosph sulfide, phosphite/phosphate esters, fragments.			-

None

Unusual Fire or

Explosive Limits: (% by volume in air)Lower Not available (% by volume in air)Upper Not available

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Take up with an inert absorbent. Store in a closed container until disposal.

	CATION 07/02/97   ROCKY HILL, CONNECTICUT 06067 07/02/97   TELEPHONE: (860) 571-5100 07/02/97		
	MATERIAL SAFETY DATA SHEET Page 03 of 04		
Item No.:	HARDENER 82725		
7. HANDLING AND STORAGE			
Safe Storage: (Contact Loctite Customer Handling:	Store below 110°F. Service 1-800-243-4874 for shelf Life information) Avoid skin contact. Keep away from eyes. Do not breathe vapors.		
8. EXPOSURE CONTROLS, PERSONAL PROTECTION			
Eyes: Skin: Ventilation:	Safety glasses or goggles. Rubber or plastic gloves. Local exhaust ventilation should be provided.		
	See Section 2 for Exposure Limits.		
9. PHYSICAL AND CHEMICAL PROPERTIES			
Appearance: Odor: Boiling Point: pH: Solubility in Water: Specific Gravity Volatile Organic Compound (EPA Method 24) Vapor Pressure: Vapor Density: Evaporation Rate	Colorless, viscous liquid. Unpleasant More than 300°F Does not apply Slight 1.08 11.08%; 119.7 grams per liter Less than 5mm at 80°F Not available		
(Ether = 1)	Not available		
10. STABILITY AND REACTIVITY			
Stability: Hazardous Polymerization: Incompatibility:	Stable Will not occur Strong oxidizing agents, epoxy/amine mixtures. Possibly acids, peroxides, acetaldehyde, caustics.		

Not available

Conditions to Avoid:

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Products (non-thermal): None

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11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

PERMATEX INDUSTRIAL CORPORATION ROCKY HILL, CONNECTICUT 06067 TELEPHONE: (860) 571-5100		07/02/97
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Item No.:	HARDENER 82725	
13. DISPOSAL CONSIDERATIONS		
Recommended methods of disposal: EPA Hazardous Waste Number	Incinerate following EPA and local reg NH - Not a RCRA Hazardous Waste Materi	
14. TRANSPORTATION INFORMATION		
DOT (49 CFR 172) Domestic Ground Transport Proper Shipping Name: Hazard Class or Division: Identification Number: Marine Pollutant: IATA Proper Shipping Name: Class or Division: UN or ID Number:	Unrestricted None None Unrestricted Unrestricted None	
15. REGULATORY INFORMATION		
CA Proposition 65:	No Californis Proposition 65 chemicals to be present.	are known
16. OTHER INFORMATION		
Estimated NFPA(R) Code: Health Hazard: Fire Hazard: Reactivity Hazard: Specific Hazard:	2 1 0 Does not apply	
Estimated HMIS(R) Code: Health Hazard: Flammability Hazard:	2* 1	

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Reactivity Hazards: Personal Protection:	Ø See Section 8.
0	trademark of the National Fire Protection Assn. trademark of the National Paint and Coatings Assn.
Prepared By:	Stephen Repetto
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Revision Date:	February 26, 1997 Revision: First Issue

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