

MSDS QuickTITE Standard Epoxy Adhesive - Resin

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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60A, EPIP Phase I, Jharmajri, Baddi, H.P. 173205	Email: info@wembleysquickfix.com
Product code :	Quicktite Resin
Identified Uses :	Industrial Chemical
Chemical Name :	EPOXY RESIN

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or Mixture	The product has not been classified as hazardous according to the legislation in force.
Hazard summary Physical hazards:	Not classified as hazardous
Health hazards Inhalation:	None Known
Eye contact :	Molten material will produce thermal burns.
Skin contact :	Molten material will produce thermal burns.
Ingestion :	None Known
Other Health Effects :	None Known
Environmental Hazards :	None Known
2.2 Label elements	Not applicable
2.3 Other Hazard	None Known

SECTION 3 COMPOSITION/INFORMATION OF INGREDIENTS

3.1 / 3.2 Substances / Mixtures

Classification	Classification
Chemical Name	
EPOXY RESIN	DSD This substance is not classified according to Directive 67/548/EEC
	CLP Not Classified
DSD :	Directive 67/548/EEC
CLP :	Regulation No. 1272/2008.
	The full text for all R- Phrases is displayed in section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of First aid measures

Inhalation :	Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
Eye Contact :	Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist. If molten material contacts the eye, immediately flush with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin Contact :	Wash with soap and water. Get medical attention if symptoms occur. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Get medical attention.
Ingestion :	Seek medical advice.
4.2 Most important symptoms and effects, both acute and delayed:	Burns should be treated as thermal burns. The material will come off as healing occurs; therefore, immediate removal from the skin is not necessary.
4.3 Indication of any immediate medical attention and special treatment needed	
Hazards :	Contact with molten substance/product may cause severe burns to skin and eyes.

Treatment : Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

General fire hazards :	Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures.
5.1 Extinguishing media	Suitable extinguishing media: Water spray. Dry chemical. Carbon Dioxide.
5.2 Special hazards arising from the substance or mixture:	Powdered material may form explosive dust-air mixtures.
5.3 Advice for firefighters Special Fire Fighting Procedures:	Minimize dust generation and accumulation.
Special protective equipment for fire-fighters :	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment.
6.2 Environmental precautions:	Not regarded as dangerous for the environment.
6.3 Methods and material for containment and cleaning up:	Sweep up and place in a clearly labeled container for chemical waste.
Notification Procedures :	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling :	Avoid contact with molten material.
7.2 Conditions for safe storage, including any incompatibilities :	Keep container closed.
7.3 Specific end use(s) :	Industrial chemical.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters Occupational exposure limits	If exposure limits have not been established, maintain airborne levels to an acceptable level.
8.2 Exposure controls Appropriate engineering controls :	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information :	Eye bath. Washing facilities.
Eye/face protection :	It is a good industrial hygiene practice to minimize eye contact. Wear a face shield when working with molten material.
Skin protection Hand protection :	It is a good industrial hygiene practice to minimize skin contact. When material is heated, wear gloves to protect against thermal burns.
Other :	No data available.
Respiratory Protection :	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.
Hygiene measures :	Observe good industrial hygiene practices.
Environmental Controls :	No data available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical State :	semi liquid
Color :	Milky to pale yellow
Odor :	Slight
Odor Threshold :	Not determined
pH :	No Data Available.

Boiling Point :	No Data Available
Flash Point :	275°C
Evaporation Rate :	Not Determined
Flammability (solid, gas) :	No Data Available
Flammability Limit - Upper (%)– :	No Data Available
Flammability Limit - Lower (%)– :	No Data Available
Vapor pressure :	Not determined
Vapor density (air=1) :	No Data Available.
Specific Gravity :	> 1 estimated
Solubility(ies)	
Solubility in Water :	Negligible
Solubility (other) :	No Data Available.
Partition coefficient (n-octanol / water):	No Data Available.
Autoignition Temperature :	No Data Available.
Decomposition Temperature :	Thermal stability not tested. Low stability hazard expected at normal operating temp.
Dynamic Viscosity :	No Data Available.
Kinematic viscosity :	Not determined
Explosive properties :	No Data Available.
Oxidizing properties :	No Data Available.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity :	None Known
10.2 Chemical stability :	Stable
10.3 Possibility of hazardous reactions :	None Known
10.4 Conditions to avoid :	None At ambient temperatures.
10.5 Incompatible materials :	Strong Oxidizing Agents
10.6 Hazardous decomposition products:	Carbon Dioxide, Carbon Monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation :	None Known
Ingestion :	None Known
Skin contact :	Molten material will produce thermal burns.
Eye contact :	Molten material will produce thermal burns.

11.1 Information on toxicological effects

Acute Toxicity	Specified Substance Modified Phenolic Gum Rosin Polymer
Oral :	No Data available
Dermal :	No Data available
Serious Eye Damage/Eye Irritation :	No Data available
Repeated Dose Toxicity :	No Data available
Skin corrosion/irritation :	No Data available
Inhalation :	No Data available
Respiratory or skin sensitization :	No Data available
Germ Cell Mutagenicity	Specified Substance Modified Phenolic Gum Rosin Polymer
In Vitro :	No data available
In Vivo :	No data available
Carcinogenicity	
Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
Reproductive toxicity	

Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
Specific target organ toxicity - single exposure	
Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
Specific target organ toxicity - repeated exposure	
Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
Aspiration hazard	
Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
Other adverse effects :	No data Available

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

Acute Toxicity	Specified Substance Modified Phenolic Gum Rosin Polymer
Fish :	No data Available
Aquatic invertebrates :	No data Available
Cronic Toxicity	Specified Substance Modified Phenolic Gum Rosin Polymer
Fish :	No data Available
Aquatic invertebrates :	No data Available

Toxicity to Aquatic Plants

Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
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12.2 Persistence and degradability

Biodegradation :	No data Available
Biological Oxygen Demand :	No data Available
Chemical Oxygen Demand :	No data Available
BOD/COD ratio :	No data Available

12.3 Bioaccumulative potential

Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
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12.4 Mobility in soil :

Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
	Known or predicted distribution to environmental compartments

Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
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12.5 Results of PBT and vPvB assessment :

Specified Substance Modified Phenolic Gum Rosin Polymer	No data Available
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12.6 Other adverse effects :

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

General information :	No data available.
Disposal Methods :	Dispose of waste and residues in accordance with local authority requirements. Incinerate.
European Waste Codes	Comply with requirements of waste disposal legislation and any local authority requirements.

SECTION 14 TRANSPORT INFORMATION

	Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/ Dangerous Goods expert for information specific to your situation.
ADR/ RID	Class not regulated
IMDG International Maritime Dangerous Goods Code	Class not regulated
IATA	Class not regulated

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: TSCA (US Toxic Substances Control Act): This product is not listed on the TSCA inventory. In the USA, its use is restricted to research and development purposes only. This product must be handled by or under the direct supervision of technically qualified persons.

15.2 Chemical safety assessment None.

SECTION 16 OTHER INFORMATION

Revision Information : New MSDS

Key literature references and sources for data: No Data Available

Wording of the R-phrases and H-statements in section 2 and 3 : Not Classified

Training information : No Data Available

MSDS QuickTITE Standard Epoxy Adhesive - Hardener

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Wembley Laboratories Ltd.

60A, EPIP Phase I, Jharmajri, Baddi, H.P. 173205

email: info@wembleysquickfix.com

Product Name: Quicktite Hardener Chemical Identity: Trade Secret
Generic Name: Hardener
Chemical Family: Polyamide resin
CAS Number: Confidential

SECTION 2 HAZARDS IDENTIFICATION

COMPONENT	CAS NUMBER	WT%	ACGIH TLV		OSHA PEL	
			(ppm)		(ppm)	
Polyamide Resin	Confidential	99.0	TWA	STEL	TWA	STEL
Triethylenetetramine	112-24-3	1.0	NE	NE	NE	NE

TLV = Threshold Limit Value

TLV = Threshold Limit Value

TWA = Time-Weighted Average (8 hours)

STEL = Short Term (15 minute) Exposure Limit

NE = Not Established

SECTION 3 COMPOSITION/INFORMATION OF INGREDIENTS

EMERGENCY OVERVIEW : Amber viscous liquid with mild amine odor.

1. WARNING! CAUSES EYE IRRITATION AND MAY CAUSE SKIN IRRITATION AND SENSITIZATION.

2. INHALATION OF VAPOR FROM THE HEATED PRODUCT MAY CAUSE RESPIRATORY IRRITATION AND SENSITIZATION.

POTENTIAL HEALTH EFFECTS :

EYE : This material causes moderate to severe eye irritation. Direct contact with the material or exposure to vapors or mists may cause stinging, tearing, redness and blurred vision.

SKIN : This material causes moderate skin irritation. Repeated and prolonged contact may cause sensitization in some individuals.

INHALATION : Inhalation of vapors from the heated product may cause irritation or sensitization of the nose and throat.

INGESTION : Not a probable route of entry into the body.

SUBCHRONIC EFFECTS (Target Organ Effects): See Section 11 for additional health information.

CHRONIC EFFECTS : Same as acute effects outlined above.

SECTION 4 FIRST AID MEASURES

EYE CONTACT : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Remove material from skin and clothing.

INHALATION : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. Remove material from skin and clothing.

INGESTION : Emergency care should not be needed.

SECTION 5 FIRE FIGHTING MEASURES

Flash point : 510°F (Cleveland Open Cup)

Upper/lower flammable limits : Unknown

Autoignition temperature : Unknown

Flammability classification : Non-hazardous

Flame propagation rate : Unknown

Extinguishing media : Water fog, foam, carbon dioxide or dry chemical.

Special precautions : Toxic gases such as carbon monoxide may be released during fire. Use positive -pressure, self-contained breathing apparatus and full protective clothing.

Unusual Fire and Explosion hazard : None known to Wembley Laboratories Ltd.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Large spills : In a clean area, dike and recover for reuse. Keep out of sewers and waterways. Dispose of contaminated material.

Small spills : Use absorbent pads or mix with absorbent material and dispose.

SECTION 7 HANDLING AND STORAGE

Use with adequate ventilation. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Avoid breathing vapor from heated product. Keep container closed when not in use.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EYES : Use chemical safety goggles to prevent eye contact. An eye wash is recommended.

SKIN : Impervious (for example, nitrile) gloves and other protective clothing should be used to prevent body contact. A safety shower is recommended.

INHALATION : For high concentrations of fumes from the heated product, an appropriate air purifying respirator should provide adequate protection. The recommended type is for organic acid gas/vapor.

ENGINEERING CONTROLS : For the product at ambient temperatures, use adequate ventilation. For the heated product, use exhaust ventilation to remove vapor.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/state : Amber viscous liquid

Odour : Aromatic

Ph : Not applicable

Vapor Pressure : <0.01 mm Hg at 20°C (68°F)

Vapor density : Not applicable

Boiling point : Not applicable

Freezing point : Unknown

Solubility in water : Approx. 0.5% at 25°C (77°F)

Specific gravity : 0.98 at 25°C/25°C (water=1.00)

Evaporation rate : Approx. 0 (nBuAc=1)

% Volatile by weight : 1% (TETA)

SECTION 10 STABILITY AND REACTIVITY

Chemical stability : Stable

Conditions to avoid : This product is not reactive with water.

Chemicals to avoid : None known.

Hazardous Polymerization : Will not occur.

Hazardous Decomposition Products: Thermal decomposition products include toxic oxides of carbon.

SECTION 11 TOXICOLOGICAL INFORMATION

The total product is not on the International Agency for Research on Cancer (IARC) or National Toxicology Program (NTP) or OSHA lists of carcinogens or potential carcinogens.

TOXICITY DATA: The following data on test animals indicate that chemically similar products have low acute toxicity potential. However, this product is an eye and skin irritant by OSHA criteria.

COMPONENT	ROUTE-SPECIES	TEST	DOSAGE	UNITS	IRRITATION DATA
Polyamide Resin	Oral-rat severe	LD50	>5	g/kg	Skin-rabbit Moderate Eye-rabbit

TETA	Oral-rat	LD50	4.34	g/kg	Corrosive to skin and
	Skin-rabbit	LD50	800	mg/kg	eyes. May cause respiratory sensitization

OTHER :

Persons with pre-existing heart disorders may be more susceptible to irregular heartbeats if exposed to high concentrations of this material.
 Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.
 Triethylenetetramine has been found to be a direct acting mutagen in the Ames assay. It gave positive results with and without activation. TETA was fetotoxic and teratogenic when fed to rats at 0.83% and 1.67% of diet. When applied dermally to the skin of pregnant guinea pigs, there was a 90% abortion rate or death of fetus with secondary copper deficiency, resulting from the chelating activity of TETA

SECTION 12 ECOLOGICAL INFORMATION

The following test results are for a similar product :

Fish Toxicity, OECD 203 (Golden Orfe)	LC50(96hr)	2.3 mg/l
Crustacean Toxicity, OECD 202 (Daphnia)	EC50(48hr)	0.55 mg/l
Algistatic Effect, OECD 201	ErC50(24-48hr)	2.9 mg/l
	EbC50(72hr)	2.3 mg/l
Ready Biodegradation, OECD301B(Modified Sturm)	0% degraded after 28 days	
Partition Coefficient, OECD 117/1	Log10Pow	3.51

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of waste by landfill or incineration in accordance with all local, state and federal regulations.

Resource Conservation and Recovery Act (RCRA): This product is not included in the lists of hazardous substances (40 CFR 261.33), nor does it exhibit the characteristics of hazardous waste (40 CFR 261.20-24).

SECTION 14 TRANSPORT INFORMATION

DOT - Department of Transportation Hazardous Materials Regulations

DOT Hazard Class :	Not applicable
DOT Proper Shipping Name :	Not applicable
Technical Name :	Not applicable
DOT Identification Number :	Not applicable
Surface Freight Classification :	Plastic Synthetic
Packing Group :	Not applicable

SECTION 15 REGULATORY INFORMATION

Toxic Substances Control Act (TSCA) :	This product is in the TSCA Inventory.	
SARA, Title III, Section 313 (40 CFR 372) :	This product contains the following substances at a level which is reportable under SARA Toxic Chemical Release Reporting Regulations:	
Chemical Name	CAS #	Wt%
None		
SARA, Section 311/312 Hazard Classification:	This product has the following hazard categories: Immediate (Acute) Health, Chronic (Delayed) Health.	
WHMIS (Canada) Status:	This is a controlled product under WHMIS: Class D, Division 2, Subdivision B - Eye and Skin Irritant.	
International Inventory Status:	This product is either listed or exempt from listing on the following inventories: Canada DSL, Europe EINECS, Japan ENCS, Korea ECL, Australia AICS, China IECS, and Philippines PICCS.	

SECTION 16 OTHER INFORMATION

Hazard Ratings : NFPA 3 Health 1 Fire 0 Reactivity

The information contained herein is based on data believed to be reliable, but is furnished without warranty or guaranty of any kind, and Wembley Laboratories Ltd. disclaims any liability incurred from the use or reliance upon the same