

HENKEL CONSUMER ADHESIVES

AVON, OH 44011
 TELEPHONE: (440) 937-7000

MATERIAL SAFETY DATA SHEET

RESIN TM-51 QUICKSET
 RESIN 01-81502

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: RESIN TM-51 QUICKSET
 Item No.: RESIN 01-81502
 Part of Kit: 01-81502
 Product Type: Epoxy adhesive

2. COMPOSITION, INFORMATION ON INGREDIENTS

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

Ingredients which have exposure limits

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

3. HAZARDS IDENTIFICATION

Toxicity: Possible skin and eye irritant. May cause skin or eye injury. Possible sensitizer.
 Primary Routes of Entry: None known
 Signs and Symptoms of Exposure: May cause dermatitis or sensitization on prolonged contact. Heated vapors may cause headache, nausea, dizziness, or respiratory irritation.
 Existing Conditions Aggravated by Exposure: Allergy, eczema, skin conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO

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Product Name: RESIN TM-51 QUICKSET
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3. HAZARDS IDENTIFICATION

(continued)

Abbreviations

ALG Allergen IRR Irritant

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
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 Not available

6. ACCIDENTAL RELEASE MEASURES

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 Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid prolonged skin contact. Keep away from eyes.

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Product Name: RESIN TM-51 QUICKSET
Item No.: RESIN 01-81502

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Not normally necessary, but mechanical and local exhaust ventilation may be desirable for prolonged use in a confined area.
Respiratory: NIOSH/MSHA approved organic cartridge respirator when ventilation is inadequate.

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: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Oxidizing agents, bases, acids, amines, mercaptans
Conditions to Avoid: Not available
Hazardous Decomposition Products (non-thermal): None

11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

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Product Name: RESIN TM-51 QUICKSET
Item No.: RESIN 01-81502

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Unrestricted
Hazard Class or
Division: Unrestricted
Identification Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: Warning: This product contains a chemical known to
the State of California to cause cancer.
Traces of epichlorohydrin

16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1*
Flammability Hazard: 1
Reactivity Hazards: 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.

Prepared by:

Company: Safety, Health and Regulatory Affairs - North America,
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100

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HARDENER 01-81502
HARDENER 01-81502

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Item No.: HARDENER 01-81502
Part of Kit: 01-81502
Product Type: Epoxy hardener

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polymercaptan	Proprietary	80-85
Substituted aminophenol	90-72-2	5-10
Nonylphenol	25154-52-3	3-5
Heptakis (dipropyleneglycol) triphosphite	116265-68-0	1-3

Ingredients which have exposure limits

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

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 swallowed. The relatively low concentration of the aminophenol in the product may minimize some or all of these effects.

Primary Routes of Entry: Skin, ingestion, inhalation.

Signs and Symptoms of Exposure: Eye, skin, respiratory, or gastrointestinal irritation. It is possible that such irritation may be severe and lead to burns. Allergic reactions may occur.

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Item No.: HARDENER 01-81502

3. HAZARDS IDENTIFICATION

(continued)

Existing Conditions

Aggravated by Exposure: Skin, eye, lung conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polymercaptan	No Data	NO	NO	NO
Substituted aminophenol	ALG IRR	NO	NO	NO
Nonylphenol	ALG COR IRR KID	NO	NO	NO
Heptakis (dipropyleneglycol) triphosphite	No Data	NO	NO	NO

Abbreviations

ALG Allergen
IRR Irritant

COR Corrosive
KID Kidney

4. FIRST AID MEASURES

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

5. FIRE FIGHTING MEASURES

Flash Point: More than 200øF Method: Tag Closed Cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Special Firefighting
Procedures: Not available
Hazardous Products formed
by Fire or Thermal Decomp Oxides of carbon, sulfur, nitrogen and phosphorus,
phosphite/phosphate esters, hydrocarbon fragments,
hydrogen sulfide, phenols, phosphine.
Unusual Fire or
Explosion Hazards: None
Explosive Limits:
(% by volume in air) Lower Not available
(% by volume in air) Upper Not available

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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.

7. HANDLING AND STORAGE

Safe Storage: Store below 110°F.
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)
Handling: Avoid skin contact. Keep away from eyes. Do not
breathe vapors.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
Skin: Rubber or plastic gloves.
Ventilation: Local exhaust ventilation should be provided.
Respiratory: NIOSH/MSHA approved organic cartridge respirator
if ventilation is inadequate.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, viscous liquid.
Odor: Unpleasant
Boiling Point: More than 300°F
pH: Does not apply
Solubility in Water: Slight
Specific Gravity: 1.08
Volatile Organic Compound
(EPA Method 24) 11.08%; 119.7 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: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizing agents, epoxy/amine mixtures.
Possibly acids, peroxides, acetaldehyde, caustics.
Conditions to Avoid: Not available
Hazardous Decomposition
Products (non-thermal): None

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11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: No Californis Proposition 65 chemicals are known to be present.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 1
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2*
Flammability Hazard: 1
Reactivity Hazards: 0
Personal Protection: See Section 8.

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08/08/00

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16. OTHER INFORMATION

(continued)

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