

## PRODUCT AND COMPANY IDENTIFICATION

**Company:** Simpson Strong-Tie Company, Inc.

Address: 5956 W. Las Positas Blvd.

Pleasanton, CA 94588

Cartridges: ET-HP22 (ET22), ET-HP56 (ET56) **Product Name:** 

> Single Packaging: ET4KT: ET020R

ET050R ET10KT: ET100KT: ET500R

**Product Description:** Epoxy-Tie Adhesive – Epoxy Resin

**Emergency Contact No.:** 1-800-535-5053 USA

1-352-323-3500 International

**Date Prepared or Revised:** March 2012 **Supercedes:** March 2008

For most current MSDS, please visit our website at www.strongtie.com

#### II. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
BisPhenolA/Epichlorohydrin (Epoxy Resin)	25068-38-6
N-butyl glycidyl ether	2426-08-6
Silica, crystalline quartz	14808-60-7
Titanium dioxide	1317-80-2

The remaining ingredients are designated as "trade secret".

## III. HAZARD IDENTIFICATION

## **EMERGENCY OVERVIEW**

Non-corrosive.

May cause eye and skin irritation. May cause skin sensitization.

#### POTENTIAL HEALTH EFFECTS

ACUTE

**Eve Contact:** May cause eye irritation, swelling, tearing, redness or cornea damage.

**Skin Contact:** Moderate irritation. May cause skin sensitization, evidenced by rashes and hives. Moderate irritation to the nose and respiratory tract. May cause Central Nervous System **Inhalation:** 

depression, evidenced by headache, dizziness, and nausea.

**Ingestion:** May cause irritation to the gastrointestinal tract. May cause Central Nervous System

depression or other systemic effects.

Lungs, eyes, and skin. **Systemic Effects:** 

IV. FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of cool water for at least 15 minutes while holding

the eyes open. If redness, burning, blurred vision, or swelling persists, CONSULT A

PHYSICIAN.

**Skin Contact:** Remove product and immediately wash affected area with soap and water. Do not

> apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persists, CONSULT A

PHYSICIAN.

DO NOT INDUCE VOMITING. Never administer anything by mouth to an **Ingestion:** 

unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. CONSULT A PHYSICIAN if vomiting occurs spontaneously, keep

head below hips to prevent aspiration.

**Inhalation:** Remove patient to fresh air. If patient continues to experience difficulty breathing,

CONSULT A PHYSICIAN.

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V. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** 

Water fog, carbon dioxide or dry chemical, aqueous foam.

Fire And Explosion Hazard: Hazardous decomposition products may occur when materials polymerize at

temperatures above 500°F. Do not allow run-off from fire fighting to enter drains or

water courses.

Fire Fighting Equipment and

**Procedures:** 

Wear full protective clothing and self-contained breathing apparatus for fire fighting.

Isolate fuel supply from fire. Clear fire area of all non-emergency personnel. Use water

spray to cool fire-exposed surfaces and containers.

VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use cautious judgment when cleaning up spill. Shut off leaks, if possible without

personal risk. Wear suitable protective clothing, gloves and eye/face protection.

Evacuate personnel to safe areas.

**Environmental Precautions:** Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters,

and soils.

Small spills: Soak up with absorbent material such as clay, sand or other suitable non-**Clean-up Methods:** 

> reactive material. Place in leak-proof containers. Seal tightly for proper disposal. Large spills: Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. Notify authorities if any exposures to the general public or environment occur or are

likely to occur. Dispose in accordance with federal, state, and local regulations.

VII. STORAGE AND HANDLING

**Additional Information:** 

Keep away from: acids, oxidizers, heat, or flames. Keep in cool, dry, well-ventilated area **Storage:** 

in closed containers. Protect containers from physical damage.

To prevent skin and eye contact under the foreseeable conditions of use, wear Handling:

appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well-

ventilated work area.

EXPOSURE CONTROLS / PERSONAL PROTECTION VIII.

**Protective Measure:** Wear appropriate personal protective equipment.

**Eye Protection:** Avoid contact with eyes. Wear chemical splash goggles or safety glasses with side

**Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

**Skin and Body Protection:** Wear chemical-resistant gloves and other clothing as required to minimize contact.

**Respirator Protection:** Not required for properly ventilated areas.

**Exposure Limits:** 

COMPONENT	ACGIH	OSHA
	(TLV)	(PEL)
BisPhenolA/Epichlorohydrin (Epoxy Resin)	N/E	N/E
N-butyl glycidyl ether	25 ppm	25 ppm
Silica, crystalline quartz (airborne particulates of	$0.1 \text{ mg/m}^3$	$0.4 \text{ mg/m}^3$
respirable size)		
Titanium dioxide (total dust)	$10 \text{ mg/m}^3$	$15 \text{ mg/m}^3$

#### IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste Color: White Odor: Sweet Vapor Pressure: Not Volatile **Boiling Point:**  $> 260^{\circ}\text{C} (>500^{\circ}\text{F})$ 

**Freezing Point:** N/E

**Flash Point:** 250°F (Open Cup)

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**Specific Gravity:** 1.19 @ 72°F **Solubility In Water:** Insoluble

X. REACTIVITY DATA

**Stability:** Stable under normal storage conditions.

Conditions To Avoid: Incompatible chemicals, high heat and open flame.

Materials To Avoid: Oxidizing agents, acids, organic bases, and amines.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, aldehydes, acids

and other organic substances.

**Hazardous Polymerization:** Will not occur.

## XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD $_{50}$ , Rat):N/EAcute Dermal (LD $_{50}$ , Rabbit):N/EAcute Inhalation (LC $_{50}$ , Rat):N/E

Chronic Health Hazard: The Diglycidyl Ether of Bisphenol A has shown weak carcinogenicity in 2-year mice

bioassays. This material has shown activity in-vitro microbial mutagenicity screening and has produced chromosomal aberrations in cultured rat liver cells. No activity when

tested by vivo mutagenicity assays.

## XII. DISPOSAL CONSIDERATIONS

Waste From Residues / This material is not a hazardous waste by RCRA criteria (40 CFR 261). Dispose of Unused Products: container and unused contents in accordance with federal, state, and local requirements.

#### XIII. TRANSPORTATION

US DOT (CFR): Not Regulated For Transport.
IATA: Not Regulated For Transport.
IMO: Not Regulated For Transport.

## XIV. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification: Acute/Chronic Health Hazard.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None.

US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):

This product contains small traces of the following chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other harm.

Component	Regulation	Concentration	Remarks
Phenylglycidyl ether*	ACGIH	Trace	Carcinogenic
Epichlorohydrin*	ACGIH	Trace	Carcinogenic

<sup>\*</sup> May be absorbed through skin.

## XV. OTHER INFORMATION

#### **HMIS RATING**

Ī	Health	Flammability	Physical Hazard
	2	1	0

N/E - Not Established

This Material Safety Data Sheet (MSDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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Product Name: Cartridges: ET-HP22 (ET22), ET-HP56 (ET56)

Single Packaging: ET4KT: ET020H

ET10KT: ET050H ET100KT: ET500H

**ETH** 

**Product Description:** Epoxy-Tie Adhesive – Epoxy Hardener

Emergency Contact No.: 1-800-535-5053 USA

1-352-323-3500 International

**Date Prepared or Revised:** March 2012 **Supercedes:** March 2008

For most current MSDS, please visit our website at

#### II. COMPOSITION / INFORMATION ON INGREDIENT

Chemical Names	CAS Numbers
Phenol (Benzenol)	108-95-2
Phenol, 4,4-(1-methylethylidene)bis	80-05-7
Amine Blend	N/E
Silica, crystalline quartz	14808-60-7

The remaining ingredients are designated as "trade secret".

## III. HAZARD IDENTIFICATION

#### **EMERGENCY OVERVIEW**

Non-corrosive.

Moderate irritation to eyes and skin. May cause skin sensitization.

Components of the product may affect the nervous system.

## POTENTIAL HEALTH EFFECTS

**ACUTE** 

**Eye Contact:** May cause eye irritation, swelling, tearing, redness or cornea damage.

**Skin Contact:** Moderate irritation. May cause skin sensitization, evidenced by rashes and hives.

**Inhalation:** Moderate irritation to the nose and respiratory tract. May cause Central Nervous System

depression, evidenced by giddiness, headache, dizziness, and nausea.

**Ingestion:** May cause irritation to the gastrointestinal tract. May cause headache nausea. May cause

Central Nervous System depression or other systemic effects.

**Systemic Effects:** Lungs, eyes, and skin.

IV. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding

the eyes open. If redness, burning, blurred vision, or swelling persists, CONSULT A

PHYSICIAN.

**Skin Contact:** Remove product and immediately wash affected area with soap and water. Do not

apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persists, **CONSULT A** 

PHYSICIAN.

**Ingestion: DO NOT INDUCE VOMITING.** Never administer anything by mouth to an

unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. **CONSULT A PHYSICIAN** if vomiting occurs spontaneously, keep

head below hips to prevent aspiration.

**Inhalation:** Remove patient to fresh air. If patient continues to experience difficulty breathing,

CONSULT A PHYSICIAN.

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V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Fire And Explosion Hazard:

Water spray, fog or foam, carbon dioxide, dry chemical, limestone powder.

Irritating and toxic fumes may be produced at high temperature. In a fire, may produce

carbon monoxide, toxic nitrogen oxide, ammonia, and carbon dioxide. Use of water may result in the formation of very toxic aqueous solution. Do not allow run-off from fire

fighting to enter drains or water courses.

Fire Fighting Equipment and

**Procedures:** 

Wear full protective clothing and self-contained breathing apparatus for fire fighting.

Isolate fuel supply from fire. Clear fire area of all non-emergency personnel.

VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use cautious judgment when cleaning up spill. Shut off leaks, if possible without

personal risk. Wear suitable protective clothing, gloves and eye/face protection.

Evacuate personnel to safe areas.

**Environmental Precautions:** Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters,

and soils.

Clean-up Methods: Small spills: Soak up with absorbent material such as clay, sand or other suitable non-

reactive material. Place in leak-proof containers. Seal tightly for proper disposal. **Large spills**: Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.

Notify authorities if any exposures to the general public or environment occur or are

likely to occur. Dispose in accordance with federal, state, and local regulations.

VII. STORAGE AND HANDLING

**Additional Information:** 

Storage: Keep away from: acids, oxidizers, heat, or flames. Keep in cool, dry, well-ventilated area

in closed containers. Protect containers from physical damage.

**Handling:** To prevent skin and eye contact under the foreseeable conditions of use, wear

appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well

ventilated work area.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Protective Measure:** Wear appropriate personal protective equipment.

**Eye Protection:** Avoid contact with eyes. Wear chemical splash goggles or safety glasses with side

shield.

**Hand Protection:** Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

**Skin and Body Protection:** Wear chemical-resistant gloves and other clothing as required to minimize contact.

**Respirator Protection:** Not required for properly ventilated areas.

**Exposure Limits:** 

Chemical Names	ACGIH (TLV)	OSHA (PEL)
Phenol (Benzenol)	5ppm	5ppm
Phenol, 4,4-(1-methylethylidene)bis	N/E	N/E
Amine Blend	N/E	N/E
Silica, crystalline quartz (airborne particulates of respirable size)	$0.1 \text{mg/m}^3$	$0.4 \text{mg/m}^3$

#### IX. PHYSICAL PROPERTIES

Form: Paste
Color: Black
Odor: Ammonia
Boiling Point: N/E
Freezing Point: N/E
Vapor Pressure: N/E

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Flash Point: 225°F Open cup Specific Gravity: 1.36@ 72°F Solubility In Water: Slight

X. REACTIVITY DATA

**Stability:** Stable under normal storage conditions. **Conditions To Avoid:** Incompatible chemicals, heat, and open flame.

Materials To Avoid: Oxidizing agents and acids.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, and nitrogen oxide, and

other organic substances.

**Hazardous Polymerization:** Will not occur.

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD<sub>50</sub>, Rat): N/E Acute Dermal (LD<sub>50</sub>, Rabbit): N/E Acute Inhalation (LC<sub>50</sub>, Rat): N/E

**Chronic Health Hazard:** Components of this product are not listed as carcinogens in concentrations of 0.1% or

greater. Repeated or prolonged exposure may cause allergic reaction and/or limited

sensitization.

XII. DISPOSAL CONSIDERATIONS

Waste From Residues / Dispose of container and unused contents in accordance with federal, state, and local

Unused Products: requirements.

XIII. TRANSPORTATION

US DOT (CFR): Not Regulated For Transport.
IATA: Not Regulated For Transport.
IMO: Not Regulated For Transport.

## XIV. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

## EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification:

Acute/Chronic Health Hazard.

#### EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:

Phenol, 4,4-(1-methylethylidene)bis. Phenol.

## US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65):

This product contains small traces of the following chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other harm.

Component	Regulation	Concentration	Remarks
Carbon Black	ACGIH	Trace	Carcinogenic
Silica, crystalline quartz (airborne particulates of respirable size)	ACGIH	Trace	Carcinogenic

#### XV. OTHER INFORMATION

## HMIS RATING

Health	Flammability	Physical Hazard
2	1	0

N/E - Not Established

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