

1. Identification

Product Identification

Product Identifier: BULK ET-HP® - RESIN (WHITE)
Recommended Use: ET-HP® is a two-component, high-solids, epoxy-based system for use as a high-strength, non-shrink anchor-grouting material formulated for anchoring threaded rod and rebar into concrete (cracked/uncracked) and masonry.
Use Restrictions: To ensure proper installation use according to package directions, complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Company Inc.
Address: 5956 W. Las Positas Blvd.
 Pleasanton, CA 94588
Phone: 1-800-999-5099
Website: www.strongtie.com
Emergency: 1-800-535-5053 (US/Canada)
 1-352-323-3500 (International)
 For most current SDS, please visit our website at www.strongtie.com/sds

2. Hazard Identification

General Information

ET-HP® Anchoring Adhesive two component (1:1) system. The two parts of this product have been assessed according to GHS and are classified below. Product should be mixed thoroughly with a low speed drill. CAUTION: Product mixing may produce heat, wear appropriate personal protective equipment and handle mixed material with caution. Mixed product can be assumed to carry the hazards of each component until the product has fully hardened. Properly cured product will be a solid medium gray material and is nonhazardous. Some hazards may apply upon grinding or cutting through hardened product.

GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Not Classified.		
Health Hazards:	Skin Corrosion/Irritation	Category 2	H315: Causes skin irritation
	Serious Eye Damage/Irritation	Category 2A	H319: Causes serious eye irritation.
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction.
	Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects.
Environmental Hazards:	Acute Aquatic Environmental Hazard	Category 2	H401: Toxic to aquatic life.
	Chronic Aquatic Environmental Hazard	Category 2	H411: Toxic to aquatic life with long-lasting effect
Main Symptoms:	Rash. Irritation of eyes and mucous membranes. Symptoms include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Long term exposure may cause chronic effects.		

GHS Label Elements



Contains: Epoxy Resins

Signal Word: **WARNING!**

Hazard Statements:

H315:	Cases skin irritation
H319:	Causes serious eye irritation.
H317:	May cause an allergic skin reaction.
H341:	Suspected of causing genetic defects.
H411:	Toxic to aquatic life with long-lasting effect

Precautionary Statements:

Prevention:

P280:	Wear protective gloves/protective clothing/eye protection/face protection.
P261:	Avoid breathing mist or vapor.
P264:	Wash thoroughly after handling.

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Response: P272: Contaminated clothing should not be allowed out of the workplace.
P302+P352: IF ON SKIN: Wash with plenty of water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P315: If skin irritation or rash occurs: Get medical advice/attention.
P337 + P315: If eye irritation persists: Get medical advice/attention.
P362 + P364: Take off contaminated clothing and wash before reuse.
Storage: P405: Store locked up.
Disposal: P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Label Information: None.

Hazards Not Otherwise Classified (HNOC) – Hardened Material

ET-HP® Anchoring Adhesive contains chemicals which are carcinogens only in their inhalable form. Due to the nature and use of ET-HP®, product inhalation is highly unlikely. Exposure to respirable particles of these chemicals is possible only when grinding or cutting cured product. Simpson Strong-Tie chooses to warn consumers of this potential risk so they can adequately prepare for the lifetime use of the product. If you are grinding or cutting cured product ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.



Carcinogenicity
STOT, Repeated Exposure

Category 1A
Category 2

H350: May cause cancer.
H372: Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).
P260: Do not breathe dust.

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Globally Harmonized System Classifications

The full text for H- phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Composition

Chemical Name	Weight %	CAS Number	EC Number
Bisphenol-A Epoxy Resin Classification: Skin Irrit. 2: H315, Skin Sens. 1: H317, Eye Irrit. 2: H319, Aquatic Chronic 2: H411	40-60	25068-38-6	266-043-4
Phenol, polymer with formaldehyde, glycidyl ether Classification: Skin Irrit. 2: H315, Skin Sens. 1: H317, Eye Irrit. 2: H319, Aquatic Chronic 2: H411	20-30	28064-14-4	---
Butyl Glycidyl Ether Classification: Flam. 3: H226, Acute Tox. 3: H301, Acute Tox. 4: H312 & H332, Skin Sens. 1: H317, GCM 2 : H341, Carcin. 3: H351, STOT SE3: H335	10-20	2426-08-6	---
Titanium Dioxide Classification: Car 2: H351	< 0.1	13463-67-7	236-675-5

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Routes of Exposure

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, **consult a physician.**

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SIMPSON
Strong-Tie

Skin Contact:	Remove contaminated clothing and product, immediately wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation persists consult a physician.
Ingestion:	Rinse mouth immediately. Do not induce vomiting unless told to do so by a poison control center or doctor. If vomiting occurs keep head low so that stomach contents don't get into the lungs. Never give anything by mouth to an unconscious person. Consult a physician.
Inhalation:	If breathing is difficult remove patient to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

Most Important Symptoms

Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause allergic skin reaction. Rash.

5. Fire-Fighting Measures

Suitable Extinguishing Media:	Extinguish with foam, carbon dioxide, dry powder, or water fog.
Additional Information:	Do not use water jet as an extinguisher as this will spread the fire.
Hazards during Fire-Fighting:	Hazardous decomposition products may occur when materials polymerize at temperatures above 500° F (260°C). Irritating and toxic gases/fumes may be released during a fire. Do not allow run-off from fire-fighting to enter drains or water courses.
Fire-Fighting Procedures:	Use standard firefighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Non-emergency personnel: Do not breathe mist or vapor, ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not get in eyes, on skin, on clothing. Follow precautions for safe handling. Stop leak if possible. Wear suitable protective clothing, gloves, eye/face protection.

Emergency personnel: Keep unnecessary personnel away. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured):	Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly. If desired, approved solvents, such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN. Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied.
Large spills (uncured):	Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof containers. Seal tightly for proper disposal. Following product recovery, flush area with water.
Cured Material:	Chip or grind off surface. If you are grinding or cutting cured product ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling

Keep away from open flame, hot surfaces, and sources of ignition. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. When using do not eat, drink, or smoke. Use only in well-ventilated places. Wash thoroughly after handling. Observe good industrial hygiene practices. To ensure proper installation use according to package directions, complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com. To obtain optimal performance from Simpson Strong-Tie products and to achieve maximum allowable design load, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Full Unused Cartridges: Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight, between 14-80°F (-10-27°C). Keep away from heat and sources of ignition. Protect container from physical damage.

Partially Used Cartridges: To store partially used cartridge temporarily replace cap or leave hardened nozzle in place. To re-use, attach new nozzle. Do not try to dispense after adhesive hardens in nozzle. **CAUTION:** Adhesive will start to gel in the nozzle. Adhesive will gel faster at higher temperatures. Material under pressure can blowout the back of the cartridge if the adhesive in the nozzle hardens. Use only an appropriate Simpson Strong-Tie® mixing nozzle in accordance with Simpson Strong-Tie instructions. Modification or improper use of mixing nozzle may impair adhesive performance.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Eye Protection: Chemical splash goggles or safety glasses with side shield are recommended.
Hand Protection: Wear chemical-resistant gloves such as: Nitrile, neoprene, or butyl rubber.
Skin and Body Protection: Wear long sleeve shirt/long pants and other clothing as required to minimize skin contact.
Respirator Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, or if discomfort is experienced, an approved respirator should be worn. Proper installation of ET-HP® requires drilling into concrete or masonry. Concrete and masonry dust can be hazardous to human health and precautions should be taken to avoid inhalation.
General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

Mechanical ventilation or local exhaust ventilation is recommended, ventilation rates should be matched to conditions to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
N-Butyl Glycidyl Ether (2426-08-6)	270 mg/m ³ 50 ppm	3 ppm	30 mg/m ³ (Ceiling) 5.6 ppm (Ceiling)
Titanium Dioxide (13463-67-7)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)	10 mg/m ³	N/E

Additional Information

Product forms an innocuous solid. ET-HP® contains chemicals which are carcinogens only in their inhalable form. Due to the nature and use of ET-HP® product inhalation is highly unlikely. Exposure to respirable particles of these chemicals is possible only when grinding or cutting cured product. Processing after cure (grinding or cutting) may produce dust containing compounds that present an inhalation hazard. If you are grinding or cutting cured product ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

9. Physical and Chemical Properties

Physical State:	Liquid, Paste	Freezing/Melting Point:	No data
Color:	White	Boiling Point:	> 500 °F (>260 °C)
Odor:	Sweet	Flash Point:	250 °F (121 °C) Open Cup
pH:	6.9	Evaporation Rate:	No data
Flammability limit – lower %:	No data	Decomposition Temperature:	No data
Flammability limit – upper %:	No data	Specific Gravity:	1.19 at 72°F (22°C)
Vapor Pressure:	Non-volatile	VOC (after cure):	3 g/L
Vapor Density:	No data	Kow:	No data
Solubility:	Insoluble in water	Viscosity:	No data

10. Stability and Reactivity

Reactivity: This product is stable and non-reactive under normal conditions.
Chemical Stability: Stable under normal storage conditions.
Condition to Avoid: High heat and open flame.
Substances to Avoid: Oxidizing agents, acids, organic bases, and amines
Hazardous Reactions: Hazardous polymerization does not occur.
Decomposition Products: Fire or high temperature can create: carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion: Ingestion may cause irritation to the gastrointestinal tract.
Inhalation: If this material is heated or misted, coughing and mild, temporary irritation may occur. Inhalation of dust from cutting/grinding cured product may irritate the respiratory tract.
Skin contact: Causes skin irritation. May cause an allergic skin reaction.
Eye contact: Causes serious eye irritation.
Symptoms: Irritant effects. Sensitization. Symptoms include itching, burning, redness and tearing.

Information on Toxicological Effects

Acute Effects

Toxicity: Occupational exposure to the substance or mixture may cause adverse effects.

Product	Species	Test Result
Butyl Glycidyl Ether (2426-08-6)	Acute, Dermal , LC50	Rabbit 2520 µL/kg
	Acute, Inhalation , LC50	Rat 1030 ppm, 8 hours
	Acute, Oral , LD50	Rabbit 1660 mg/kg
Bisphenol A/Epichlorohydrin Resin (25068-38-6)	Acute, Dermal , LC50	Rat >2000 mg/kg
	Acute, Oral , LD50	Rat >5000 mg/kg

Skin corrosion/irritation: Causes skin irritation.
Eye damage/eye irritation: Causes serious eye irritation.
Respiratory sensitization: No data available.
Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: Due to the physical form of this product it is not an aspiration hazard.
Specific target organ toxicity: Single exposure No data available.

Chronic Effects

Germ cell mutagenicity: Contains a component that is suspected of causing genetic defects.
Carcinogenicity: Product contains ingredients which are considered carcinogens only in their inhalable form. Due to the nature of this product inhalation is highly unlikely. Exposure to respirable particles is likely only when grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure.
Reproductive toxicity: Not data available.
Specific target organ toxicity: Repeated exposure No data available.

Carcinogen / Reproductive Toxin / Mutagen Information				
Component	IARC Monographs	NTP	ACGIH	Other
Quartz (14808-60-7)	1	KNOWN	A2	CA65 (respirable)
Titanium Dioxide (13463-67-7)	2	---	---	CA65 (respirable)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
 NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
 ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
 CA65 – California Prop 65

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on the components and the ecotoxicity of similar products. Resin is classified as toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

Component	Species	Test Result
Bisphenol A/Epichlorohydrin (25068-38-6)	Fish, LC50	Salmo Gairdneri 1.5 mg/l, 96 hours
	Aquatic , Crustacea, EC50	Daphnia Magna 2.7 mg/l, 48 hours
Titanium dioxide (CAS 13463-67-7)	Aquatic , Crustacea, EC50	Daphnia >1000 mg/l, 48 hours
	Aquatic , Fish, LC50	Mummichog >1000 mg/l, 96 hours

Persistence and degradability: No data available.
Bioaccumulative potential: No data available for this product.
Mobility in soil: No data available.

Further Information

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal Consideration

Waste Disposal of Substance: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Container Disposal: Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

DOT: ET-HP Resin is not regulated for transport by United States Department of Transportation.
IMDG / IATA: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-Epichlorohydrin Resin), 9, III, Marine Pollutant
NOTE: ET-HP Resin in packages less than 5L are **exempt** from EHS classification when shipping by AIR (IATA A197) or WATER (IMDG Code 2.10.2.7).

15. Regulatory Information

United States

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting) None listed.

US State Right-To-Know Lists

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Rhode Island RTK
Butyl Glycidyl Ether (CAS 2426-08-6)	Listed		Listed	
Titanium dioxide (CAS 13463-67-7)	Listed		Listed	

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US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or reproductive harm.



Carcinogen / Reproductive Toxin / Mutagen Information				
Component	IARC Monographs	NTP	ACGIH	Other
Quartz (14808-60-7)	1	KNOWN	A2	CA65 (respirable)
Titanium Dioxide (13463-67-7)	2	---	---	CA65 (respirable)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
 NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
 ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
 CA65 – California Prop 65

Canada

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

WHMIS Classification

	
Class E: Corrosive	Class D-2A: Material Causing other toxic effects

International

The product is classified in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

This product is not restricted for use by any European Union Restriction on Use Regulations.

REACH Registered Substances			
Chemical	CAS Number	EC Number	Index Number
Bisphenol-A Epoxy Resin	25068-38-6	500-033-5	603-074-00-8
Butyl Glycidyl Ether	2426-08-6	219-376-4	603-039-00-7

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

Australia	All component of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).
Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	All components of this product are listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL)
New Zealand	All components of this product are included on the New Zealand Inventory.
United States	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: July 2016
 Supersedes: September 2016

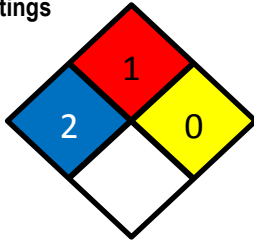
ET-HP® Anchoring Adhesive

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Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications

NFPA Ratings



HMIS Rating

HEALTH HAZARD	2
FLAMMABILITY HAZARD	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

Abbreviations

ACGIH:	American Conference of Governmental Industrial Hygienists
CAS No.:	Chemical Abstract Service Registry Number
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
CPR:	Controlled Product Regulations (Canada)
DOT:	Department of Transportation (U.S.)
EPA:	Environmental Protection Agency (U.S.)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HEPA:	High-Efficiency Particulate Air
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code
NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NFPA:	National Fire Protection Association (US)
NTP:	National Toxicology Program (US)
OSHA:	Occupational Safety and Health Administration (U.S.)
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendments and Reauthorization Act (U.S. EPA)
SDS:	Safety Data Sheet
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
U.S.:	United States
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Disclaimer

This Safety Data Sheet (SDS) 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 SDS. This SDS 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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FOR INTERNAL USE ONLY

ET-HP Resin: XCOM3B – 50% Cartridge

ET-HP Hardener: XCOM3B – 50% Cartridge

1. Identification

Product Identification

Product Identifier: BULK ET-HP® - HARDENER (BLACK)
Recommended Use: ET-HP® is a two-component, high-solids, epoxy-based system for use as a high-strength, non-shrink anchor-grouting material formulated for anchoring threaded rod and rebar into concrete (cracked/uncracked) and masonry.
Use Restrictions: To ensure proper installation use according to package directions, complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Company Inc.
Address: 5956 W. Las Positas Blvd.
 Pleasanton, CA 94588
Phone: 1-800-999-5099
Website: www.strongtie.com
Emergency: 1-800-535-5053 (US/Canada)
 1-352-323-3500 (International)
 For most current SDS, please visit our website at www.strongtie.com/sds

2. Hazard Identification

General Information

ET-HP® Anchoring Adhesive two component (1:1) system. The two parts of this product have been assessed according to GHS and are classified below. Product should be mixed thoroughly with a low speed drill. CAUTION: Product mixing may produce heat, wear appropriate personal protective equipment and handle mixed material with caution. Mixed product can be assumed to carry the hazards of each component until the product has fully hardened. Properly cured product will be a solid medium gray material and is nonhazardous. Some hazards may apply upon grinding or cutting through hardened product.

GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Not Classified.		
Health Hazards:	Skin Corrosion/Irritation	Category 2	H315: Causes skin irritation
	Serious Eye Damage/Irritation	Category 1	H319: Causes serious eye irritation.
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction.
	Germ Cell Mutagenicity	Category 2	H341: Suspected of causing genetic defects.
	Reproductive Toxicity (Fertility)	Category 2	H361: Suspected of damaging fertility.
	STOT, Repeated Exposure	Category 2	H371: May cause damage to organs through repeated or prolonged exposure.
Environmental Hazards:	Acute Aquatic Environmental Hazard	Category 2	H401: Toxic to aquatic life.
	Chronic Aquatic Environmental Hazard	Category 2	H411: Toxic to aquatic life with long-lasting effect
Main Symptoms:	Rash. Irritation of eyes and mucous membranes. Symptoms include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Long term exposure may cause chronic effects.		

GHS Label Elements



Contains: Amines and Phenols
Signal Word: DANGER!
Hazard Statements:
 H315: Causes skin irritation
 H319: Causes serious eye irritation.
 H317: May cause an allergic skin reaction.
 H341: Suspected of causing genetic defects.
 H361: Suspected of damaging fertility.
 H371: May cause damage to organs through repeated or prolonged exposure.

ET-HP® Anchoring Adhesive
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Precautionary Statements:	H411:	Toxic to aquatic life with long-lasting effect
Prevention:	P280:	Wear protective gloves/protective clothing/eye protection/face protection.
	P261:	Avoid breathing mist or vapor.
	P264:	Wash thoroughly after handling.
	P272:	Contaminated clothing should not be allowed out of the workplace.
Response:	P302+P352:	IF ON SKIN: Wash with plenty of water.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333 + P315:	If skin irritation or rash occurs: Get medical advice/attention.
	P337 + P315:	If eye irritation persists: Get medical advice/attention.
	P362 + P364:	Take off contaminated clothing and wash before reuse.
Storage:	P405:	Store locked up.
Disposal:	P501:	Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental Label Information: None.

Hazards Not Otherwise Classified (HNOC) – Hardened Material

ET-HP® Anchoring Adhesive contains chemicals which are carcinogens only in their inhalable form. Due to the nature and use of ET-HP®, product inhalation is highly unlikely. Exposure to respirable particles of these chemicals is possible only when grinding or cutting cured product. Simpson Strong-Tie chooses to warn consumers of this potential risk so they can adequately prepare for the lifetime use of the product. If you are grinding or cutting cured product ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.



Carcinogenicity
STOT, Repeated Exposure

Category 1A
Category 2

H350: May cause cancer.
H372: Causes damage to organs (lung) through prolonged or repeated exposure (inhalation).
P260: Do not breathe dust.

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Globally Harmonized System Classifications

The full text for H- phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Composition

Chemical Name	Weight %	CAS Number	EC Number
2-Piperazin-1-ylethylamine	5-15	140-31-8	205-411-0
Classification:	Acute Tox. 4; H302+H312, Skin Corr 1B; H314, Skin Sens 1; H317, Aquatic Chronic 3; H412		
Bisphenol-A	5-10	80-05-7	201-245-8
Classification:	Skin Sens 1; H317, Eye Dam 1; H318, STOT SE3; H335, Repr 2; H361f		
2,4,6-Tris-(dimethylaminomethyl)-phenol	< 10	90-72-2	202-013-9
Classification:	Acute Tox. 4 : H302, Skin Irrit. 2 : H315, Eye Irrit 2 : H319		
Nonylphenol	< 10	84852-15-3	284-325-5
Classification :	Acute Tox. 4 : H302, Skin Corr 1B : H314, Repr 2 : H361d, Aquatic 1 : H410		
Phenol	< 10	108-95-2	203-632-7
Classification:	Acute Tox 3: H301+311+331, Skin Corr 1B: H314, Muta 2: H341, STOT RE 2: H373		
Crystalline Silica, Quartz	< 10	14808-60-7	238-878-4
Classification:	Carc 1A: H350, STOT RE 2: H372		
m-Phenylenebis(methylamine)	< 10	1477-55-0	216-032-5
Classification:	Acute Tox. 4: H302+322, Skin Corr 1B: H314, Skin Sens 1: H317, Aquatic 3: H412		

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Routes of Exposure

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If redness, burning, blurred vision, or swelling persists, **consult a physician.**

Skin Contact: Remove contaminated clothing and product, immediately wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation persists **consult a physician.**

Ingestion: Rinse mouth immediately. Do not induce vomiting unless told to do so by a poison control center or doctor. If vomiting occurs keep head low so that stomach contents don't get into the lungs. Never give anything by mouth to an unconscious person. **Consult a physician.**

Inhalation: If breathing is difficult remove patient to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, **consult a physician.**

Most Important Symptoms

Irritant effects. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause allergic skin reaction. Rash.

5. Fire-Fighting Measures

Suitable Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder, or water fog.

Additional Information: Do not use water jet as an extinguisher as this will spread the fire.

Hazards during Fire-Fighting: Hazardous decomposition products may occur when materials polymerize at temperatures above 500° F (260°C). Irritating and toxic gases/fumes may be released during a fire. Do not allow runoff from fire-fighting to enter drains or water courses.

Fire-Fighting Procedures: Use standard firefighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Non-emergency personnel: Do not breathe mist or vapor, ensure adequate ventilation. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Do not get in eyes, on skin, on clothing. Follow precautions for safe handling. Stop leak if possible. Wear suitable protective clothing, gloves, eye/face protection.

Emergency personnel: Keep unnecessary personnel away. Wear appropriate personal protection.

Clean-Up Methods

Small spills (uncured): Wipe up with absorbent material (e.g. cloth, fleece). Place in leak-proof containers. Seal tightly. If desired, approved solvents, such as ketones (MEK, acetone, etc.), lacquer thinner, or adhesive remover can be used. DO NOT USE SOLVENTS TO CLEAN ADHESIVE FROM SKIN. Take appropriate precautions when handling flammable solvents. Solvents may damage surfaces to which they are applied.

Large spills (uncured): Stop the flow of material, if this is without risk. Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product. Place in leak-proof containers. Seal tightly for proper disposal. Following product recovery, flush area with water.

Cured Material: Chip or grind off surface. If you are grinding or cutting cured product ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling

Keep away from open flame, hot surfaces, and sources of ignition. Wear appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. When using do not eat, drink, or smoke. Use only in well-ventilated places. Wash thoroughly after handling. Observe good industrial hygiene practices. To ensure proper installation use according to package directions, complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com. To obtain optimal performance from Simpson Strong-Tie products and to achieve maximum allowable design load, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Full Unused Cartridges: Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight, between 14-80°F (-10-27°C). Keep away from heat and sources of ignition. Protect container from physical damage.
Partially Used Cartridges: To store partially used cartridge temporarily replace cap or leave hardened nozzle in place. To re-use, attach new nozzle. Do not try to dispense after adhesive hardens in nozzle. CAUTION: Adhesive will start to gel in the nozzle. Adhesive will gel faster at higher temperatures. Material under pressure can blowout the back of the cartridge if the adhesive in the nozzle hardens. Use only an appropriate Simpson Strong-Tie® mixing nozzle in accordance with Simpson Strong-Tie instructions. Modification or improper use of mixing nozzle may impair adhesive performance.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Eye Protection: Chemical splash goggles or safety glasses with side shield are recommended.
Hand Protection: Wear chemical-resistant gloves such as: Nitrile, neoprene, or butyl rubber.
Skin and Body Protection: Wear long sleeve shirt/long pants and other clothing as required to minimize skin contact.
Respirator Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits, or if discomfort is experienced, an approved respirator should be worn. Proper installation of ET-HP® requires drilling into concrete or masonry. Concrete and masonry dust can be hazardous to human health and precautions should be taken to avoid inhalation.
General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

Mechanical ventilation or local exhaust ventilation is recommended, ventilation rates should be matched to conditions to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Phenol* (CAS 108-95-2)	19 mg/m ³ 5 ppm	5 ppm	60 mg/m ³ (Ceiling) 15.6 ppm (Ceiling)
Quartz (14808-60-7)	0.3 mg/m ³ (total dust) 0.1 mg/m ³ (respirable)	0.025 mg/m ³ (respirable)	0.05 mg/m ³ (respirable)
m-Phenylenebis(methylamine)* (CAS 1477-55-0)	N/E	0.1 mg/m ³ (Ceiling)	0.1 mg/m ³ (Ceiling)

***Skin Designation:** Material can be absorbed through the skin.

Additional Information

Product forms an innocuous solid. ET-HP® contains chemicals which are carcinogens only in their inhalable form. Due to the nature and use of ET-HP® product inhalation is highly unlikely. Exposure to respirable particles of these chemicals is possible only when grinding or cutting cured product. Processing after cure (grinding or cutting) may produce dust containing compounds that present an inhalation hazard. If you are grinding or cutting cured product ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

9. Physical and Chemical Properties

Physical State:	Liquid, Paste	Freezing/Melting Point:	No data
Color:	Black	Boiling Point:	No data
Odor:	Ammonia	Flash Point:	225 °F (107 °C) Open Cup
pH:	10.2	Evaporation Rate:	No data
Flammability limit – lower %:	No data	Decomposition Temperature:	No data
Flammability limit – upper %:	No data	Specific Gravity:	1.36 at 72°F (22°C)
Vapor Pressure:	No data	VOC (after cure):	3 g/L
Vapor Density:	No data	Kow:	No data
Solubility:	Slightly soluble in water	Viscosity:	No data

10. Stability and Reactivity

Reactivity:	This product is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	High heat and open flame.
Substances to Avoid:	Strong oxidizing agents. Peroxides. Phenols. Acids.
Hazardous Reactions:	The product is stable if stored and handled as prescribed/indicated.
Decomposition Products:	Fire or high temperature can create: carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion:	Causes digestive tract burns. Ingestion may cause irritation to the gastrointestinal tract.
Inhalation:	If this material is heated or misted, coughing and mild, temporary irritation may occur. Inhalation of dust from cutting/grinding cured product may irritate the respiratory tract.
Skin contact:	Causes skin irritation. Causes severe skin burns. May cause an allergic skin reaction.
Eye contact:	Causes serious eye irritation. Causes serious eye damage.
Symptoms:	Irritant effects. Sensitization. Symptoms include itching, burning, redness and tearing.

Information on Toxicological Effects

Acute Effects

Toxicity: Occupational exposure to the substance or mixture may cause adverse effects.

Product	Species	Test Result
2-Piperazin-1-ylethylamine (CAS 140-31-8) Acute, Dermal, LD50	Rabbit	880 mg/kg
4,4'-isopropylidenediphenol (CAS 80-05-7) Acute, Oral, LD50	Rat Mouse	3300 mg/kg 2500 mg/kg
Nonylphenol (CAS 84852-15-3) Acute, Dermal, LD50 Acute, Oral, LD50	Rabbit Rat	2140 mg/kg 1600 mg/kg
Phenol (CAS 108-95-2) Acute, Dermal, LD50 Acute, Oral, LD50	Rabbit Rat	850 mg/kg 317 mg/kg
m-Phenylenebis(methylamine) (CAS 1477-55-0) Acute, Dermal, LD50 Acute, Inhalation, LC50 Acute, Oral, LD50	Rabbit Rat Rat	2000 mg/kg 700 ppm, 1 hour 930 mg/kg

Skin corrosion/irritation:	Causes skin irritation. Causes skin burns.
Eye damage/eye irritation:	Causes serious eye irritation. Causes serious eye damage.
Respiratory sensitization:	No data available.
Skin sensitization:	May cause an allergic skin reaction.
Aspiration hazard:	Due to the physical form of this product it is not an aspiration hazard.
Specific target organ toxicity:	
Single exposure	No data available.

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Chronic Effects

Germ cell mutagenicity:
Carcinogenicity:

Contains a component that is suspected of causing genetic defects.
Cured product contains ingredients which are considered carcinogens only in their inhalable form. Due to the nature of this product inhalation is highly unlikely. Exposure to respirable particles is likely only when grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure.

Reproductive toxicity:
Specific target organ toxicity:
Repeated exposure

Suspected of damaging fertility.
May cause damage to organs (kidney, Liver, Lung, nervous system, skin) through prolonged or repeated exposure.

Carcinogen / Reproductive Toxin / Mutagen Information				
Component	IARC Monographs	NTP	ACGIH	Other
Quartz (14808-60-7)	1	KNOWN	A2	CA65 (respirable)
Phenol (108-95-2)	3	---	A4	Limited evidence of reproductive toxicity (NOAEL 1000 mg/l)
Bisphenol-A (80-05-7)	---	---	---	CA65 reproductive
Nonylphenol (84852-15-3)	---	---	---	Limited evidence of reproductive toxicity (NOAEL >2000 ppm)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 - Not classifiable as to carcinogenicity 4 - Probably not carcinogenic
NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
ACGIH - A1 - Confirmed carcinogen A2 - Suspected carcinogen A3 - Animal carcinogen A4 - Not classified A5 - Not suspected
CA65 - California Prop 65

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on the components and the ecotoxicity of similar products.
Resin is classified as toxic to aquatic life with long lasting effects. Avoid release to the environment.
Hardener is classified as toxic to aquatic life with long lasting effects. Avoid release to the environment.

Supporting Data

Component	Species	Test Result
2-Piperazin-1-ylethylamine (140-31-8)	Aquatic, Fish, LC50	Fathead Minnow 1950-2460 mg/l, 96 hours
	Aquatic, Fish, LC50	Fathead Minnow 3.6-5.4 mg/l, 96 hours
4,4'-isopropylidenediphenol (CAS 80-05-7)	Aquatic, Crustacea, EC50	Clam 0.0379 mg/l, 48 hours
	Aquatic, Fish, LC50	Winter Flounder 0.017 mg/l, 96 hours
Phenol (CAS 108-95-2)	Aquatic, Crustacea, EC50	Daphnia 4.7-6.4 mg/l, 48 hours
	Aquatic, Fish, LC50	Rainbow Trout 7.7 mg/l, 96 hours

Persistence and degradability: No data available.
Bioaccumulative potential: No data available for this product.

Chemical	Log Kow	BCF	Bioaccumulation Potential
Phenol (108-95-2)	1.46	---	Low
4,4'-isopropylidenediphenol (80-05-7)	3.32	----	Low
Nonylphenol (25154-52-3)	5.71	---	Medium

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Mobility in soil: No data available.

Further Information

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal Consideration

Waste Disposal of Substance: Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Container Disposal: Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal of Cured Product: Chip or grind off surface. Solid material does not need special disposal consideration.

14. Transportation Information

DOT: ET-HP in cartridges are not regulated for transport.

IMDG / IATA: ET-HP in cartridges are less than 5L and are **exempt** from EHS classification when shipping by **AIR** (IATA A197) or **WATER** (IMDG Code 2.10.2.7). Please contact Simpson Strong-Tie if you are trying to ship ET-HP in quantities larger than 5L.

15. Regulatory Information

United States

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.
CERCLA Hazardous Substance List (40 CFR 302.4)
 4,4,'-isopropylidenediphenol (CAS 80-05-7) LISTED
 Phenol (CAS 108-95-2) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance No
SARA 311/312 Hazardous chemical Yes
SARA 313 (TRI reporting)

Chemical Name	CAS Number	% by weight
Phenol	108-95-2	1-10
4,4,'-isopropylidenediphenol	80-05-7	5-10

US. California Proposition 65 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or reproductive harm.

Carcinogen / Reproductive Toxin / Mutagen Information				
Component	IARC Monographs	NTP	ACGIH	Other
Quartz (14808-60-7)	1	KNOWN	A2	CA65 (respirable)
Carbon Black (1333-86-4)	2B	---	---	CA65 (respirable)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
 NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
 ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
 CA65 – California Prop 65

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US State Right-To-Know Lists

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Rhode Island RTK
2-Piperazin-1-ylethylamine (CAS 140-31-8)	Listed	Listed	Listed	
4,4'-isopropylidenediphenol (CAS 80-05-7)	Listed	Listed	Listed	Listed
m-Phenylenebis(methylamine) (CAS 1477-55-0)	Listed		Listed	
Nonylphenol (CAS 84852-15-3)	Listed		Listed	
Phenol (CAS 108-95-2)	Listed	Listed	Listed	Listed
Quartz (CAS 14808-60-7)	Listed		Listed	

Canada

This product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

	
Class E: Corrosive	Class D-2A: Material Causing other toxic effects

International

The product is classified in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. **This product is not restricted for use by any European Union Restriction on Use Regulations.**

REACH Registered Substances			
Chemical	CAS Number	EC Number	Index Number
2-piperazin-1-ylethylamine	140-31-8	205-411-0	612-105-00-4
4,4'-isopropylidenediphenol	80-05-7	201-245-8	604-030-00-0
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	202-013-9	603-069-00-0
4-nonylphenol, branched	84852-15-3	284-325-5	601-053-00-8
phenol	108-95-2	203-632-7	604-001-00-2

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

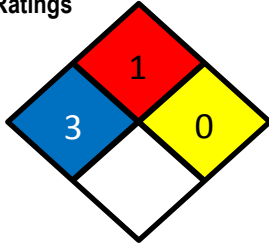
Australia	All component of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).
Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	All components of this product are listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL)
New Zealand	All components of this product are included on the New Zealand Inventory.
United States	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

Date Prepared or Revised: March 2016
Supersedes: September 2014

Additional Classifications

NFPA Ratings



HMIS Rating

HEALTH HAZARD	3
FLAMMABILITY HAZARD	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

Abbreviations

- ACGIH:** American Conference of Governmental Industrial Hygienists
- CAS No.:** Chemical Abstract Service Registry Number
- CERCLA:** Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
- CPR:** Controlled Product Regulations (Canada)
- DOT:** Department of Transportation (U.S.)
- EPA:** Environmental Protection Agency (U.S.)
- GHS:** Globally Harmonized System of Classification and Labeling of Chemicals
- HEPA:** High-Efficiency Particulate Air
- HMIS:** Hazardous Materials Identification System
- IARC:** International Agency for Research on Cancer
- IATA:** International Air Transport Association
- IMDG:** International Maritime Dangerous Goods code
- NIOSH:** National Institute of Occupational Safety and Health (U.S.)
- NFPA:** National Fire Protection Association (US)
- NTP:** National Toxicology Program (US)
- OSHA:** Occupational Safety and Health Administration (U.S.)
- PEL:** Permissible Exposure Limit
- SARA:** Superfund Amendments and Reauthorization Act (U.S. EPA)
- SDS:** Safety Data Sheet
- STEL:** Short Term Exposure Limit (15 minute Time Weighted Average)
- STOT:** Specific Target Organ Toxicity (GHS Classification)
- TLV:** Threshold Limit Value
- TSCA:** Toxic Substances Control Act (U.S.)
- TWA:** Time Weighted Average (exposure for 8-hour workday)
- U.S.:** United States
- VOC:** Volatile Organic Compounds
- WHMIS:** Canadian Workplace Hazardous Materials Information System

Disclaimer

This Safety Data Sheet (SDS) 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 SDS. This SDS 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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FOR INTERNAL USE ONLY	
ET-HP Resin: XCOM3B – 50% Cartridge	ET-HP Hardener: XCOM3B – 50% Cartridge