

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

1. Identification

Product Identification

Product Identifier: SET-3G™
Recommended Use: SET-3G is a high-strength epoxy adhesive.
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

SET-3G is a two component (1:1) system packaged as a single unit in a dual cartridge. The two parts of this product have been individually assessed according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has fully hardened. Exposure to individual components will only occur with improper use. The final cured product will be uniformly gray in color and can be considered nonhazardous. Some hazards may apply upon grinding or cutting through hardened product. This Safety Data Sheet covers the hazards and responses for the safe use of this product.

Resin (White Side) 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 2	H319: Causes serious eye irritation
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
Environmental Hazards:	Chronic Aquatic Hazard	Category 2	H411: Toxic to aquatic life with long lasting effects

Main Symptoms: Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin.

GHS Label Elements



Exclamation Point Environmental Hazard

Contains: Epoxy Resins, Neopentyl glycol diglycidyl ether

Signal Word: **WARNING!**

Hazard Statements:

H315:	Causes skin irritation.
H319:	Causes serious eye irritation.
H317:	May cause an allergic skin reaction.
H411:	Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:

P201:	Obtain special instructions before use.
P202:	Do not handle until all safety precautions have been read and understood.
P261:	Avoid breathing mist or vapor.
P264:	Wash thoroughly after handling.
P272:	Contaminated work clothing should not be allowed out of the workplace.
P273:	Avoid release to the environment.
P280:	Wear protective gloves/protective clothing/eye protection/face protection.

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET



Response:	P302+P352:	IF ON SKIN: Wash with plenty of water.
	P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364:	Take off contaminated clothing and wash before re-use.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage:	P337+P313:	If eye irritation persists: Get medical advice/attention.
	P391:	Collect Spillage.
	P403:	Store in a well-ventilated place.
	P405:	Store locked up.
Disposal:	P501:	Dispose of contents/container in accordance with local regulations.

Supplemental Label Information: None known.

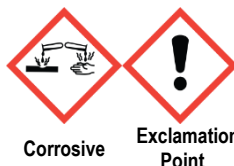
Hardener (Black Side) GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Not Classified.		
Health Hazards:	Skin Corrosion/Irritation	Category 1	H314: Causes severe skin burns
	Serious Eye Damage/Irritation	Category 1	H318: Causes serious eye damage
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
Environmental Hazards:	Not Classified.		

Main Symptoms: Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin.

GHS Label Elements



Contains:	Amines, Crystalline Silica (Quartz), Benzyl Alcohol	
Signal Word:	DANGER!	
Hazard Statements:	H314:	Causes severe skin burns and eye damage.
	H318:	Causes serious eye damage.
	H317:	May cause an allergic skin reaction.
Precautionary Statements:	Prevention:	P201: Obtain special instructions before use.
	P202: Do not handle until all safety precautions have been read and understood.	
	P260: Do not breathe dust, mist, or vapor.	
	P264: Wash thoroughly after handling.	
	P272: Contaminated work clothing must not be allowed out of the workplace.	
	P280: Wear protective gloves/protective clothing/eye protection/face protection.	
	Response:	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P310: Immediately call a POISON CENTER/doctor.	
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.	
	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.	
	P363: Wash contaminated clothing before reuse.	
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Storage:	P337+P313: If eye irritation persists: Get medical advice/attention.	
P403+P233: Store in a well-ventilated place. Keep container tightly closed.		
P405: Store locked up.		
Disposal:	P501: Dispose of contents/container in accordance with local/regional regulations.	

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie®

The above hazards are for the uncured SET-3G. Upon full cure, an innocuous solid which does not present any immediate hazards is formed. Upon grinding or cutting through the cured product, the following hazards may apply. Ensure that good work practices, and the necessary precautionary measures, are taken to maintain safe use of the product.



Chronic Health

Health Hazard: Carcinogenicity Category 1A
OSHA Hazard: STOT, Repeated Exposure Category 1
Combustible Dust

Hazard Statement: May cause cancer.
Causes damage to organs (lungs) with prolonged and repeated exposure.
Can form explosive air-dust mixtures, avoid creating dust.

Precautionary Statement: Do not breathe dust.
Do not allow dust to build up on surfaces.

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: Global Harmonized System Classifications

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

Resin (White Side)

Chemical Name	Weight %	CAS Number	EC Number
Phenolic Novolac Resin	40-60	28064-14-4	608-164-0
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, STOT SE 3: H335, Aquatic Chronic 2: H411			
Bisphenol-A Based Epoxy Resin	30-50	25068-38-6	500-033-5
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, STOT SE 3: H335, Aquatic Chronic 2: H411			
Neopentyl Glycol Diglycidyl Ether	1-5	17557-23-2	241-536-7
Classifications: Skin Irrit. 2: H315, Skin Sens. 1: H317			
Titanium Dioxide	1-5	13463-67-7	614-122-2
Classifications: Carc. 2: H351			

Hardener (Black Side)

Chemical Name	Weight %	CAS Number	EC Number
Crystalline Silica, Quartz	10-30	14808-60-7	238-878-4
Classifications: Carc. 1A: H350, STOT RE 1: H372			
Benzene-1,3-Dimethanamine	1-10	1477-55-0	216-032-5
Classifications: Acute Tox. 4: H302+H332, Skin Corr. 1: H314, Eye Corr. 1: H318, Skin Sens. 1: H317, Aquatic 3: H402+H412			
Benzyl Alcohol	1-10	100-51-6	202-859-9
Classifications: Acute Tox. 4: H302+H332, Eye Irrit. 2: H319			
Aliphatic Amines	1-5	N/A	N/A
Classifications: Acute Tox. 4: H302+H332, Skin Corr. 1: H314, Eye Corr. 1: H318, Skin Sens. 1: H317			
2,4,6-tris-(dimethylaminomethyl)phenol	1-5	90-72-2	202-013-9
Classifications: Acute Tox. 4: H302, Skin Irrit. 2: H315, Eye Irrit. 2: H319			

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 immediately.**

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie®

Skin Contact:	Remove contaminated clothing and product, immediately wash affected area with soap and water. Chemical burns must be treated by a physician .
Ingestion:	Rinse mouth immediately. Give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. Consult a physician immediately.
Inhalation:	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

Most Important Symptoms

Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. Permanent eye damage, including blindness, may result. Rash/dermatitis.

5. Fire-Fighting Measures

Suitable Extinguishing Media:	Extinguish with foam, carbon dioxide, dry powder, or water fog.
Additional Information:	None known.
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. Water run-off can cause environmental damage.
Fire-Fighting Procedures:	Use standard fire-fighting 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: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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 for proper disposal. Clean surface thoroughly to remove residual contamination.
Large spills (uncured):	Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. 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. Keep combustibles away from spilled material.
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. Take precautionary measures; do not allow dust to build up.

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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling

Mechanical ventilation or local exhaust ventilation is recommended. Keep away from open flames, hot surfaces and sources of ignition. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Do not breathe dust, mist, or vapor. Use only in well-ventilated places. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. To obtain optimal performance from Simpson Strong-Tie products, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Store in a closed container away from incompatible materials. Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight, between 45-90°F (7-32°C). Keep out of the reach of children. Keep away from heat and sources of ignition. Store in a well-ventilated place. Store locked up.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure: Wear appropriate personal protective equipment.
Eye Protection: 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 long sleeve shirt/long pants and other clothing as required to minimize contact.
Respirator Protection: The use of a respirator is not required during normal use of this product. If grinding or cutting cured product the use of an approved respirator is recommended.
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
Titanium Dioxide (CAS 13463-67-7)	15 mg/m ³ (TWA)	10 mg/m ³ (TWA)	N/E
Benzene-1,3-Dimethaneamine* (CAS 1477-55-0)	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)
Benzyl Alcohol (CAS 100-51-6)	5 mg/m ³ (TWA)	N/E	5 mg/m ³ (STEL)
Aliphatic Amines	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)
Quartz (CAS 14808-60-7)	$\frac{10}{\%SiO_2 + 2} \text{ mg/m}^3$	0.025 mg/m ³ (respirable)	0.05 mg/m ³ (respirable)

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

9. Physical and Chemical Properties

Property	Resin	Hardener
Physical State:	Paste	Paste
Color:	White	Black
Odor:	Sweet	Ammoniacal
pH:	~7	~11
Flammability limit – lower %:	No data	No data
Flammability limit – upper %:	No data	No data
Vapor Pressure:	No data	No data
Vapor Density:	No data	No data
Solubility:	Insoluble in water	Slightly soluble in water
Freezing/Melting Point:	No data	No data
Boiling Point:	>300°F (>149°C)	>225°F (>107°C)
Flash Point:	256°F (124°C)	201°F (94°C)
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data
Specific Gravity:	1.215	1.863
VOC (after cure):	2 g/l	2 g/l
Kow:	No data	No data
Viscosity:	Non-Sag Gel	Non-Sag Gel

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.

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

Substances to Avoid: **Resin:** Oxidizing agents, acids, organic bases and amines. **Hardener:** Strong oxidizing agents and strong acids.
Hazardous Reactions: Hazardous polymerization does not occur.
Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion: Corrosive material; causes severe irritation or burns to the gastrointestinal tract or respiratory tract if swallowed.
Inhalation: This material is a viscous liquid to semi-solid which does not easily form vapors. Do not inhale processing dust.
Skin contact: Causes severe skin burns. May cause an allergic skin reaction.
Eye contact: Causes serious eye damage.
Symptoms: Burns, redness, itching, tearing, swelling, and blurred vision. Rash/dermatitis. May cause severe irritation or burns to the gastrointestinal tract and respiratory system.

Information on Toxicological Effects

Acute Effects

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

Component	Estimate
SET-3G Resin Toxicity Estimate	
Acute, Oral, LD50	> 3000
Acute, Dermal, LD50	> 2000
SET-3G Hardener Toxicity Estimate	
Acute, Oral, LD50	> 2000

Skin corrosion/irritation: Causes severe skin irritation and burns.
Eye damage/eye irritation: Causes serious eye irritation and damage.
Respiratory sensitization: No data available.
Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: Not expected to be an aspiration hazard.
**Specific target organ toxicity
 Single exposure:** No data available.

Chronic Effects

Germ cell mutagenicity: The available data does not indicate that any component of this product present at greater than 0.1% is genotoxic or mutagenic.
Carcinogenicity: May cause cancer. This product contains components which are considered carcinogens only in their respirable form. Due to the nature of this product, 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: No data available.
**Specific target organ toxicity
 Repeated exposure:** Causes damage to organs (lungs) through prolonged or repeated exposure to processing dust only. Repeated or prolonged exposure to respirable silica dust will cause lung damage in the form of silicosis. Symptoms include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Titanium Dioxide (CAS 13463-67-7)	1-5	2B	---	---	CA65
Quartz (CAS 14808-60-7)	10-30	1	KNOWN	A2	CA65
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

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

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 data on the components and the ecotoxicology of similar products. SET-3G Resin is classified as toxic to aquatic life with long lasting effects. SET-3G Hardener is not classified as an environmental hazard. Avoid release to the environment.

Supporting Data

Component	Estimate
SET-3G™ Resin Toxicity Estimate	
Aquatic , Fish, LC50	< 2 mg/l, 96 hours
Aquatic , Crustacea, EC50	2-5 mg/l, 48 hours
Aquatic , Algae, EC50	> 10 mg/l, 72 hours
SET-3G™ Hardener Toxicity Estimate	
Aquatic , Fish, LC50	60-80 mg/l, 96 hours
Aquatic , Crustacea, EC50	60-80 mg/l, 48 hours
Aquatic , Algae, EC50	40-60 mg/l, 72 hours

Persistence and degradability: This product is not expected to be readily biodegradable.

Bioaccumulative potential: No data available for this product.

Mobility in soil: This product is non-volatile.

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 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

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

	<u>Resin (White Side)</u>	<u>Hardener (Black Side)</u>
UN number:	UN3082	UN2735
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-Epichlorohydrin), 9, III, Marine Pollutant	AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-Dimethanamine), 8, III
Transportation Class:	9	8
Packing Group:	III	II
Environment Hazard:	Yes	No
Required Labels:	9	8
ERG Code (IATA):	9L	8L
EmS (IMDG):	F-A, S-F	F-A, S-B
Special Precautions for Users:	Ready safety instructions, SDS and emergency procedures before handling.	

Based on packaging size, Limited Quantity exemptions may apply. Please consult the 49 CFR HMR, IATA DGR, and IMDG Code to ensure that shipments comply with these regulations.

15. Regulatory Information

United States

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

Federal Regulations: 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 regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard Categories:					
	Immediate	Delayed	Fire	Pressure	Reactivity
Resin	Yes	Yes	No	No	No
Hardener	Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: No

SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting):

Chemical	CAS Number	% In Blend (approx.)
Aluminum Oxide	1344-28-1	< 1

US. California Proposition 65:

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to www.P65Warnings.ca.gov.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Titanium Dioxide (CAS 13463-67-7)	1-5	2B	---	---	CA 65 (Carcinogenic)
Quartz (CAS 14808-60-7)	10-30	1	KNOWN	A2	CA 65 (Carcinogenic)
Carbon Black (CAS 1333-86-4)	< 0.1	2B	---	---	CA 65 (Carcinogenic)

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 HPR and the SDS contains all of the information required by the HPR.

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 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	One or more components in this product are not listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	One or more components in this product are not 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	One or more components in this product are not 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	One or more components in this product are not listed on the New Zealand Inventory.
Philippines	One or more components in this product are not listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

United States & Puerto Rico 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: December 2019

Supersedes: September 2016

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

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)
HPR:	Hazardous Product Regulations (Canada)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
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)
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)
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Full Text of H – Phrases Under Section 3

H302:	Harmful if swallowed.
H332:	Harmful if inhaled.
H335:	May cause respiratory irritation.
H350:	May cause cancer.
H351:	Suspected of causing cancer.
H372:	Causes damage to organs through prolonged and repeated exposure.
H402:	Harmful to aquatic life.
H412:	Harmful to aquatic life with long lasting effects.

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.

© 2019 Simpson Strong-Tie Company Inc.

Internal

FOR INTERNAL USE ONLY

SET-3G Resin:	SET-3G Hardener:
XCOM3B – 50% Cartridge	XCOM3B – 50% Cartridge
	XCORR – 50% Cartridge

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

1. Identification

Product Identification

Product Identifier: SET-3G™
Recommended Use: SET-3G is a high-strength epoxy adhesive.
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

SET-3G is a two component (1:1) system packaged as a single unit in a dual cartridge. The two parts of this product have been individually assessed according to the Globally Harmonized System (GHS). The mixed product can be assumed to carry the hazards of each component until the product has fully hardened. Exposure to individual components will only occur with improper use. The final cured product will be uniformly gray in color and can be considered nonhazardous. Some hazards may apply upon grinding or cutting through hardened product. This Safety Data Sheet covers the hazards and responses for the safe use of this product.

Resin (White Side) 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 2	H319: Causes serious eye irritation
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
Environmental Hazards:	Chronic Aquatic Hazard	Category 2	H411: Toxic to aquatic life with long lasting effects

Main Symptoms: Irritation of eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin.

GHS Label Elements



Exclamation Point Environmental Hazard

Contains: Epoxy Resins, Neopentyl glycol diglycidyl ether
Signal Word: **WARNING!**
Hazard Statements:
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.
H411: Toxic to aquatic life with long lasting effects.
Precautionary Statements:
Prevention:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P261: Avoid breathing mist or vapor.
P264: Wash thoroughly after handling.
P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

Response:	P302+P352:	IF ON SKIN: Wash with plenty of water.
	P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
	P362+P364:	Take off contaminated clothing and wash before re-use.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage:	P337+P313:	If eye irritation persists: Get medical advice/attention.
	P391:	Collect Spillage.
	P403:	Store in a well-ventilated place.
Disposal:	P405:	Store locked up.
	P501:	Dispose of contents/container in accordance with local regulations.

Supplemental Label Information: None known.

Hardener (Black Side) GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Not Classified.		
Health Hazards:	Skin Corrosion/Irritation	Category 1	H314: Causes severe skin burns
	Serious Eye Damage/Irritation	Category 1	H318: Causes serious eye damage
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
Environmental Hazards:	Not Classified.		

Main Symptoms: Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin.

GHS Label Elements



Contains:	Amines, Crystalline Silica (Quartz), Benzyl Alcohol
Signal Word:	DANGER!
Hazard Statements:	H314: Causes severe skin burns and eye damage.
	H318: Causes serious eye damage.
	H317: May cause an allergic skin reaction.
Precautionary Statements:	
Prevention:	P201: Obtain special instructions before use.
	P202: Do not handle until all safety precautions have been read and understood.
	P260: Do not breathe dust, mist, or vapor.
Response:	P264: Wash thoroughly after handling.
	P272: Contaminated work clothing must not be allowed out of the workplace.
	P280: Wear protective gloves/protective clothing/eye protection/face protection.
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P310: Immediately call a POISON CENTER/doctor.
	P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
	P363: Wash contaminated clothing before reuse.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313: If eye irritation persists: Get medical advice/attention.
Storage:	P403+P233: Store in a well-ventilated place. Keep container tightly closed.
	P405: Store locked up.
Disposal:	P501: Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

The above hazards are for the uncured SET-3G. Upon full cure, an innocuous solid which does not present any immediate hazards is formed. Upon grinding or cutting through the cured product, the following hazards may apply. Ensure that good work practices, and the necessary precautionary measures, are taken to maintain safe use of the product.



Chronic Health

Health Hazard:	Carcinogenicity	Category 1A
OSHA Hazard:	STOT, Repeated Exposure Combustible Dust	Category 1
Hazard Statement:	May cause cancer. Causes damage to organs (lungs) with prolonged and repeated exposure. Can form explosive air-dust mixtures, avoid creating dust.	
Precautionary Statement:	Do not breathe dust. Do not allow dust to build up on surfaces.	

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: Global Harmonized System Classifications

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

Resin (White Side)

Chemical Name	Weight %	CAS Number	EC Number
Phenolic Novolac Resin	40-60	28064-14-4	608-164-0
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, STOT SE 3: H335, Aquatic Chronic 2: H411			
Bisphenol-A Based Epoxy Resin	30-50	25068-38-6	500-033-5
Classifications: Skin Irrit. 2: H315, Eye Irrit. 2: H319, Skin Sens. 1: H317, STOT SE 3: H335, Aquatic Chronic 2: H411			
Neopentyl Glycol Diglycidyl Ether	1-5	17557-23-2	241-536-7
Classifications: Skin Irrit. 2: H315, Skin Sens. 1: H317			
Titanium Dioxide	1-5	13463-67-7	614-122-2
Classifications: Carc. 2: H351			

Hardener (Black Side)

Chemical Name	Weight %	CAS Number	EC Number
Fly Ash	30-50	68131-74-8	268-627-4
Classifications: Eye Irrit. 2: H319			
Crystalline Silica, Quartz	10-30	14808-60-7	238-878-4
Classifications: Carc. 1A: H350, STOT RE 1: H372			
Benzene-1,3-Dimethanamine	1-10	1477-55-0	216-032-5
Classifications: Acute Tox. 4: H302+H332, Skin Corr. 1: H314, Eye Corr. 1: H318, Skin Sens. 1: H317, Aquatic 3: H402+H412			
Benzyl Alcohol	1-10	100-51-6	202-859-9
Classifications: Acute Tox. 4: H302+H332, Eye Irrit. 2: H319			
2,4,6-tris-(dimethylaminomethyl)phenol	1-5	90-72-2	202-013-9
Classifications: Acute Tox. 4: H302, Skin Irrit. 2: H315, Eye Irrit. 2: H319			

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 immediately.
---------------------	---

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie®

Skin Contact:	Remove contaminated clothing and product, immediately wash affected area with soap and water. Chemical burns must be treated by a physician .
Ingestion:	Rinse mouth immediately. Give large amounts of milk or water, if person is conscious. Only induce vomiting at the instruction of medical personnel. Consult a physician immediately.
Inhalation:	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, consult a physician.

Most Important Symptoms

Damage to the eyes and skin. Symptoms include burns, redness, itching, tearing, swelling, and blurred vision. Permanent eye damage, including blindness, may result. Rash/dermatitis.

5. Fire-Fighting Measures

Suitable Extinguishing Media:	Extinguish with foam, carbon dioxide, dry powder, or water fog.
Additional Information:	None known.
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. Water run-off can cause environmental damage.
Fire-Fighting Procedures:	Use standard fire-fighting 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: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of vapors or mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. 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 for proper disposal. Clean surface thoroughly to remove residual contamination.
Large spills (uncured):	Stop the flow of material, if this is without risk. Dike far ahead of spill to contain material. 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. Keep combustibles away from spilled material.
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. Take precautionary measures; do not allow dust to build up.

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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

Handling

Mechanical ventilation or local exhaust ventilation is recommended. Keep away from open flames, hot surfaces and sources of ignition. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Do not breathe dust, mist, or vapor. Use only in well-ventilated places. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices. To obtain optimal performance from Simpson Strong-Tie products, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

Storage

Store in a closed container away from incompatible materials. Keep in original container. Keep container tightly closed. Store in a dry, well-ventilated place out of direct sunlight, between 45-90°F (7-32°C). Keep out of the reach of children. Keep away from heat and sources of ignition. Store in a well-ventilated place. Store locked up.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure: Wear appropriate personal protective equipment.
Eye Protection: 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 long sleeve shirt/long pants and other clothing as required to minimize contact.
Respirator Protection: The use of a respirator is not required during normal use of this product. If grinding or cutting cured product the use of an approved respirator is recommended.
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
Titanium Dioxide (CAS 13463-67-7)	15 mg/m ³ (TWA)	10 mg/m ³ (TWA)	N/E
Benzene-1,3-Dimethanamine* (CAS 1477-55-0)	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)
Benzyl Alcohol (CAS 100-51-6)	5 mg/m ³ (TWA)	N/E	5 mg/m ³ (STEL)
Aliphatic Amines	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)	0.1 mg/m ³ (ceiling)
Quartz (CAS 14808-60-7)	$\frac{10}{\%SiO_2 + 2} \text{ mg/m}^3$	0.025 mg/m ³ (respirable)	0.05 mg/m ³ (respirable)

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

9. Physical and Chemical Properties

Property	Resin	Hardener
Physical State:	Paste	Paste
Color:	White	Black
Odor:	Sweet	Ammoniacal
pH:	~7	~11
Flammability limit – lower %:	No data	No data
Flammability limit – upper %:	No data	No data
Vapor Pressure:	No data	No data
Vapor Density:	No data	No data
Solubility:	Insoluble in water	Slightly soluble in water
Freezing/Melting Point:	No data	No data
Boiling Point:	>300°F (>149°C)	>225°F (>107°C)
Flash Point:	256°F (124°C)	201°F (94°C)
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data
Specific Gravity:	1.215	1.863
VOC (after cure):	2 g/l	2 g/l
Kow:	No data	No data
Viscosity:	Non-Sag Gel	Non-Sag Gel

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.

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

Substances to Avoid: **Resin:** Oxidizing agents, acids, organic bases and amines. **Hardener:** Strong oxidizing agents and strong acids.
Hazardous Reactions: Hazardous polymerization does not occur.
Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion: Corrosive material; causes severe irritation or burns to the gastrointestinal tract or respiratory tract if swallowed.
Inhalation: This material is a viscous liquid to semi-solid which does not easily form vapors. Do not inhale processing dust.
Skin contact: Causes severe skin burns. May cause an allergic skin reaction.
Eye contact: Causes serious eye damage.
Symptoms: Burns, redness, itching, tearing, swelling, and blurred vision. Rash/dermatitis. May cause severe irritation or burns to the gastrointestinal tract and respiratory system.

Information on Toxicological Effects

Acute Effects

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

Component	Estimate
SET-3G Resin Toxicity Estimate	
Acute, Oral, LD50	> 3000
Acute, Dermal, LD50	> 2000
SET-3G Hardener Toxicity Estimate	
Acute, Oral, LD50	> 2000

Skin corrosion/irritation: Causes severe skin irritation and burns.
Eye damage/eye irritation: Causes serious eye irritation and damage.
Respiratory sensitization: No data available.
Skin sensitization: May cause an allergic skin reaction.
Aspiration hazard: Not expected to be an aspiration hazard.
**Specific target organ toxicity
 Single exposure:** No data available.

Chronic Effects

Germ cell mutagenicity: The available data does not indicate that any component of this product present at greater than 0.1% is genotoxic or mutagenic.
Carcinogenicity: May cause cancer. This product contains components which are considered carcinogens only in their respirable form. Due to the nature of this product, 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: No data available.
**Specific target organ toxicity
 Repeated exposure:** Causes damage to organs (lungs) through prolonged or repeated exposure to processing dust only. Repeated or prolonged exposure to respirable silica dust will cause lung damage in the form of silicosis. Symptoms include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Titanium Dioxide (CAS 13463-67-7)	1-5	2B	---	---	CA65
Quartz (CAS 14808-60-7)	10-30	1	KNOWN	A2	CA65
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

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

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 data on the components and the ecotoxicology of similar products. SET-3G Resin is classified as toxic to aquatic life with long lasting effects. SET-3G Hardener is not classified as an environmental hazard. Avoid release to the environment.

Supporting Data

Component	Estimate
SET-3G™ Resin Toxicity Estimate	
Aquatic , Fish, LC50	< 2 mg/l, 96 hours
Aquatic , Crustacea, EC50	2-5 mg/l, 48 hours
Aquatic , Algae, EC50	> 10 mg/l, 72 hours
SET-3G™ Hardener Toxicity Estimate	
Aquatic , Fish, LC50	60-80 mg/l, 96 hours
Aquatic , Crustacea, EC50	60-80 mg/l, 48 hours
Aquatic , Algae, EC50	40-60 mg/l, 72 hours

Persistence and degradability: This product is not expected to be readily biodegradable.

Bioaccumulative potential: No data available for this product.

Mobility in soil: This product is non-volatile.

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 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

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

	Resin (White Side)	Hardener (Black Side)
UN number:	UN3082	UN2735
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-Epichlorohydrin), 9, III, Marine Pollutant	AMINES, LIQUID, CORROSIVE, N.O.S. (Benzene-1,3-Dimethanamine), 8, III
Transportation Class:	9	8
Packing Group:	III	III
Environment Hazard:	Yes	No
Required Labels:	9	8
ERG Code (IATA):	9L	8L
EmS (IMDG):	F-A, S-F	F-A, S-B
Special Precautions for Users:	Ready safety instructions, SDS and emergency procedures before handling.	

Based on packaging size, Limited Quantity exemptions may apply. Please consult the 49 CFR HMR, IATA DGR, and IMDG Code to ensure that shipments comply with these regulations.

15. Regulatory Information

United States

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

Federal Regulations: 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 regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA):

Hazard Categories:					
	Immediate	Delayed	Fire	Pressure	Reactivity
Resin	Yes	Yes	No	No	No
Hardener	Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: No

SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting):

Chemical	CAS Number	% In Blend (approx.)
Aluminum Oxide	1344-28-1	< 1

US. California Proposition 65:

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to www.P65Warnings.ca.gov.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Titanium Dioxide (CAS 13463-67-7)	1-5	2B	---	---	CA 65 (Carcinogenic)
Quartz (CAS 14808-60-7)	10-30	1	KNOWN	A2	CA 65 (Carcinogenic)
Carbon Black (CAS 1333-86-4)	< 0.1	2B	---	---	CA 65 (Carcinogenic)

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 HPR and the SDS contains all of the information required by the HPR.

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 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	One or more components in this product are not listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	One or more components in this product are not 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	One or more components in this product are not 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	One or more components in this product are not listed on the New Zealand Inventory.
Philippines	One or more components in this product are not listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

SET-3G™ High-Strength Epoxy Adhesive

SAFETY DATA SHEET

SIMPSON

Strong-Tie

United States & Puerto Rico 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: April 2020

Supersedes: September 2016

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

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)
HPR:	Hazardous Product Regulations (Canada)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
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)
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)
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Full Text of H – Phrases Under Section 3

H302:	Harmful if swallowed.
H332:	Harmful if inhaled.
H335:	May cause respiratory irritation.
H350:	May cause cancer.
H351:	Suspected of causing cancer.
H372:	Causes damage to organs through prolonged and repeated exposure.
H402:	Harmful to aquatic life.
H412:	Harmful to aquatic life with long lasting effects.

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.

© 2020 Simpson Strong-Tie Company Inc.

Internal

FOR INTERNAL USE ONLY

SET-3G Resin:	SET-3G Hardener:
XCOM3B – 50% Cartridge	XCOM3B – 50% Cartridge
	XCORR – 50% Cartridge