CIP *Crack Injection Paste-Over Adhesive*
SAFETY DATA SHEET

1. Identification

Product Identification

Product Identifier: **CIP (CIP22, CIP)**
Recommended Use: Two Component Crack Injection Paste-Over
Use Restrictions: None Known.

Company Identification

Company: Simpson Strong-Tie Company Inc.
Address: 5956 W. Las Positas Blvd.
Pleasanton, CA 94588, USA
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

CIP Crack Injection Paste-Over Adhesive is a two part system. The two parts of this product have been assessed according to GHS and are classified below. The final hardened material is considered nonhazardous. Some hazards apply upon grinding or cutting through hardened product.

Resin (white side) GHS Classification

Physical Hazards:	Not Classified.	
Health Hazards:	Skin Corrosion/Irritation	Category 2
	Serious Eye Damage/Irritation	Category 2A
	Sensitization, Skin	Category 1
Environmental Hazards:	Acute Aquatic Environmental Hazard	Category 2
	Chronic Aquatic Environmental Hazard	Category 2

Signal Word: **WARNING!**
Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid breathing mist or vapor. Wash thoroughly after handling. Avoid release to the environment.

Response: If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. Collect spillage.

Storage: Store locked up. Store in a well-ventilated place. Store between 45-90°F (7-32°C).

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hardener (black side) GHS Classification

Physical Hazards:	Not Classified.	
Health Hazards	Acute Toxicity, Oral	Category 4

	Skin Corrosion/Irritation	Category 2
	Serious Eye Damage/Irritation	Category 2A
Environmental Hazards:	Not Classified.	

Signal Word: **WARNING!**
Hazard Statements: Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.
Precautionary Statements:
Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
Response: If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage: Store locked up. Store in a well-ventilated place. Store between 45-90°F (7-32°C).
Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards Not Otherwise Classified (HNOC)

The above hazards are for the uncured components of CIP. Upon combination with the two parts form an innocuous solid which does not present any immediate hazards. Upon grinding or cutting the cured product, the following hazards may apply.

Health Hazards:	Carcinogenicity	Category 1A
	STOT, Repeated Exposure	Category 2A (Lung)
Hazard Statements:	May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure (inhalation).	
Precautionary Statements:	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.

Resin (white side)

Chemical Name	CAS Number	Weight %
Bisphenol-A/Epichlorohydrin (Epoxy Resin)	25068-38-6	70-95

Hardener (black side)

Chemical Name	CAS Number	Weight %
Mercaptan(s)	N/A	20-40
2,4,6-Tris-(dimethyl aminomethyl)-phenol	90-72-2	10-30
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	3033-62-3	1-5
Crystalline Silica, Quartz	14808-60-7	1-5
Carbon Black	1333-86-4	0.1- 1

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 redness, burning, or swelling persists, **consult a physician**.

Ingestion: Rinse mouth immediately. Give diluents if person is conscious. Only induce vomiting at the instruction of medical personnel. **Consult a physician.**

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

Irritant effects. Sensitization.

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). 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. Move containers from fire area if you can do so without risk. Cool containers exposed to heat with water spray and remove container, if no risk is involved. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Evacuate area. Prevent run-off from fire-control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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.

Clean-Up Methods

Small spills: 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: 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.

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

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 in use do not eat, drink, or smoke. Use only in well-ventilated places. Wash thoroughly after handling. Observe good industrial hygiene practices.

Storage

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

8. Exposure Controls / Personal Protection

Personal Protective Equipment

General Protection: 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 shirts/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 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

When using indoors good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Ready access to running water is required. Provide eyewash station.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Carbon Black (1333-86-4)	3.5 mg/m^3	3 mg/m^3 (TWA, respirable)	0.1 mg/m^3 (TWA)
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)
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine) (3033-62-3)	N/E	0.15 ppm (STEL) 0.05 ppm (TWA)	N/E

Skin Designation: N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine) (3033-62-3) can be adsorbed through the skin

Additional Information

After Cure: Product forms an innocuous solid. Processing after cure (grinding or cutting) may produce dust containing compounds that present an inhalation hazard.

9. Physical and Chemical Properties

Property	Resin	Hardener
Physical State:	Liquid, Paste	Liquid, Paste
Color:	White	Black
Odor:	No significant odor	Strong skunk-like
pH:	5.1	10.64
Flammability limit – lower %:	No data	No data
Flammability limit – upper %:	No data	No data
Vapor Pressure:	Not volatile	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:	No data	No data
Flash Point:	250 °F (121.1°C) Open Cup	202 °F (94.4 °C) Closed Cup
Evaporation Rate:	No data	No data
Decomposition Temperature:	No data	No data
Specific Gravity:	1.20 at 72°F (22°C)	1.38 at 72°F (22°C)
VOC (after cure):	< 1 g/L	< 1 g/L
Kow:	No data	No data
Viscosity:	No data	No data
Corrosiveness:	Non-corrosive	Non-corrosive

10. Stability and Reactivity

Resin (white side)

Reactivity: This product is stable and non-reactive under normal conditions.

Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	Heat, sparks, flame, elevated temperatures.
Substances to Avoid:	Oxidizing agents. Acids. Organic bases. Amines.
Hazardous Reactions:	The product is stable if stored and handled as prescribed/indicated.
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

Hardener (black side)

Reactivity:	This product is stable and non-reactive under normal conditions.
Chemical Stability:	Stable under normal storage conditions.
Condition to Avoid:	Heat, sparks, flame, elevated temperatures.
Substances to Avoid:	Oxidizing agents. Acids.
Hazardous Reactions:	The product is stable if stored and handled as prescribed/indicated
Decomposition Products:	Carbon dioxide, carbon monoxide, oxides of nitrogen, and other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion:	Harmful if swallowed. May cause irritation to the gastrointestinal tract.
Inhalation:	If this material is heated, coughing and mild irritation may occur. Inhalation of dust from grinding or cutting cured product may irritate the respiratory tract.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye irritation.

Information on Toxicological Effects

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

Product	Species	Test Result
N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine) (3033-62-3)		
Acute, *Dermal*, LC50	Rabbit	235 mg/kg
Acute, *Oral*, LD50	Rat	1045 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.
Germ cell mutagenicity:	The available data does not indicate that any ingredient of this product present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity:	Quartz and Carbon Black are considered carcinogens only in their inhalable form. Due to the nature of this product inhalation is highly unlikely. Exposure to respirable Quartz and Carbon Black is likely only when grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure.

IARC Monographs. Overall Evaluation of Carcinogenicity

Quartz (14808-60-7) 1 Carcinogenic to humans.
Carbon Black (1333-86-4) 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Quartz (14808-60-7) Known to be Human Carcinogen.

Reproductive toxicity:	No data available.
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.
Repeated exposure	May cause damage to organs (lung) through prolonged or repeated exposure (inhalation of processing dust).

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 certain 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. Resin is classified as toxic to aquatic life with long lasting effects. Hardener is not classified as environmentally hazardous. Avoid release to the environment.

Supporting Data

Component	Species	Test Result
BisphenolA/Epichlorohydrin (Epoxy Resin) (25068-38-6)		
Aquatic, Fish, LC50	Salmo gairdneri	1.5 mg/l, 96 hours
Aquatic, Crustacea, EC50	Daphnia magna	2.7 mg/l, 48 hours

Persistence and degradability: Not expected to be readily biodegradable.
Bioaccumulative potential: No data available.
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/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: Grind or chip off surfaces. Solid material does not need special disposal considerations.

14. Transportation Information

Resin (white side)

UN number: UN3082
UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.(Bisphenol-A-Epichlorohydrin Resin), 9, III
Precautions: Marine Pollutant
Required Labels: 9
ERG Code (IATA): 9L
EmS (IMDG): F-A, S-F

Hardener (black side)

Hardener is not regulated as a dangerous good for transport.

Additional Information

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
This substance/mixture is not intended to be transported in bulk.

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.

15. Regulatory Information

United States

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 listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance: No
SARA 311/312 Hazardous chemical: Yes
SARA 313 (TRI reporting): Not regulated.

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
Carbon Black (CAS 1333-86-4)	Listed		Listed	
Quartz (CAS 14808-60-7)	Listed		Listed	

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

Component	Regulation	% In Blend (approx.)	Remark
Quartz (14808-60-7)	ACGIH	1-5	Carcinogenic
Carbon Black (1333-86-4)	ACGIH	0.1-1	Carcinogenic

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 D-2B: Material Causing other toxic effects

International

International Inventories

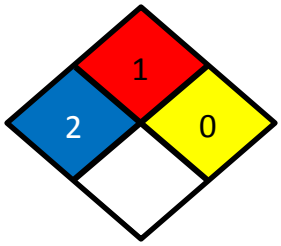
Country or Region	Inventory	On Inventory? (Yes/No)
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic / Non-Domestic Substances List (DSL / NDSL)	Yes
USA & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other Information

Date Prepared or Revised: September 2014
Supersedes: August 2012

Additional Resin (white side) Classifications

NFPA Ratings



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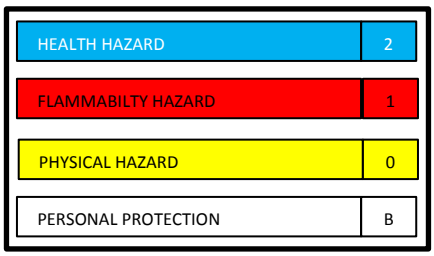
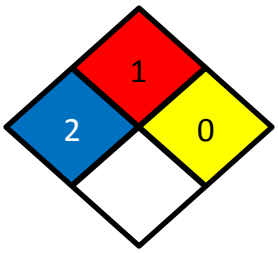


Additional Hardener (black side) Classifications

NFPA Ratings



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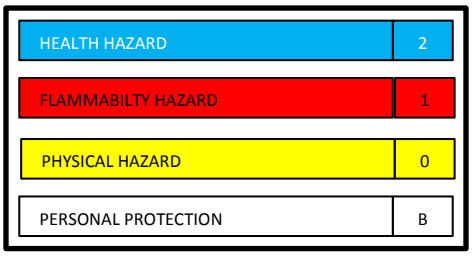

Abbreviations

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
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)
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.

Internal

FOR INTERNAL USE ONLY

CIP Resin:	CIP Hardener:
XCOM3B – 50% Cartridge	XCOM3B – 50% Cartridge