CARBON STITCH

CONCRETE CRACK LOCK STITCH KIT

SAFETY DATA SHEET

SECTION 01 - BASIC INFORMATION

PRODUCT DESCRIPTION

The Carbon Stitch Concrete Crack Lock stitch (CCL) is a revolutionary new product that was developed to improve concrete crack repair. CCL is installed by making a single cut across the crack and drilling two holes along the cut at the appropriate locations. Once the preparation is complete and free of dust, the cut is filled with High Strength Anchoring Epoxy Paste, the CCL is inserted, and more Anchoring Epoxy covers the stitch. Once installed, the CCL bonds bonds both sides of the crack together. Due to the unique shape of the CCL, it utilizes the complete tensile strength of the carbon fiber instead of just the epoxy bond.

MANUFACTURER:

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American Association of Poison Control Centers

SECTION 02 - HAZARDS IDENTIFICATION

Hazard Statement

Not classified as hazardous according to the Globally Harmonized System (GHS), OSHA Hazard Communication Standard (29 CFR 1910.1200), and WHMIS 2015.

The product is a solid article composed of pre-cured epoxy resin reinforced with carbon fiber and fiberglass. Under normal conditions of use, it does not release hazardous substances and does not present a chemical health hazard.

Mechanical processing (cutting, sanding, drilling, or grinding) may generate dust or fibers that could cause mechanical irritation to the skin, eyes, or respiratory tract. Use appropriate dust control measures and personal protective equipment during such operations.

SECTION 03 - COMPOSITION / INFORMATION ON INGREDIENTS

Non Hazardous Ingredients

SECTION 04 - FIRST AID MEASURES

General Advice:	First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.
Inhalation:	Not a normal rout of injury. However, if inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.
Skin Contact:	Remove contaminated clothing. Wash contacted areas thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before re-use.
Eye Contact:	While holding eyes open, gently flood with plenty of fresh water for 15minutes. If irritation persists or recurs seek medical attention. Skilled personnel should only undertake removal of contact lenses after eye injury.
Ingestion:	Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do Not give anything by mouth to an unconscious person.

SECTION 05 - FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use extinguishing agent suitable for type of surrounding fire (e.g. water spary or fog, foam, carbon dioxide, and dry chemical)
Hazards From Combustion:	This material is not flammable. However, in a fire situation or at extreme products: temperatures, gases/vapours/fumes produced of carbon monoxide and dioxide can be produced.
Precautions For Fire Fighters:	None known.
Hazchem code:	None allocated

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods & Materials For Containment and Clean Up Authority: Shovel into appropriately labeled and sealed containers. Disposal should be e ected by an approved waste disposal organization according to local regulations. Refer to the local waste management authority.

Environmental Precautions: Do not discharge into sewers or waterways.

SECTION 07 - HANDLING AND STORAGE

Min./Max. Storage Temperatures: Minimum: -30°C (-22°F)
Maximum: +60°C (+140°F)
Recommended / Optimal: 0 to 35°C (32 to 95°F)

Handling Precautions: Wear personal protective equipment (PPE) as per Section 8. Avoid dust formation. Airborne particles and filaments should be controlled to minimize skin irritation and electrical shorts in switch gears due to the conductivity of fiber.

Storage Precautions: Keep material in its original packaging or secured to prevent physical damage. Protect from excessive heat, open flame, or prolonged exposure to direct sunlight. Avoid prolonged exposure to moisture, standing water, or corrosive environments. No known incompatible materials under normal storage conditions. Keep away from food and beverages as a general precaution.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

General Advice: Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hand Protection: No specific hand protection is noted but it is still advisable to limit skin contact by wearing impervious gloves e.g. PVC or nitrile rubber.

Eye Protection: Chemical worker's goggles, well fitting safety glasses or full face shield.

Body Protection: No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.

Other Information: OSHA and ACGIH (USA) have not established air contamination for carbon fibers. Under certain conditions, this substance may be nuisance dust. OSHA has an established standard for particulates not otherwise regulated (nuisance dust) set at 5 mg/m3 (respirable fraction) and 15 mg/m3 (total dust). ACGIH has established an exposure value of 3 mg/m3 (respirable fraction) and 10 mg/m3 (total).

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Form:	Black Solid Fibrous Matted Surface	**pH:**	Not Applicable
Odor:	Odorness* According to NOHSC:2011 (2003) and HSNO CoP 8-1 (September 2006)	**Flashpoint:**	Not Applicable
		Evaporation Rate:	Not Applicable
		Solubility in Water:	Insoluble
Appearance:	Black		

SECTION 10 - STABILITY AND REACTIVITY

Stability:	Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to chemical impact.
Substances to avoid:	Strong acids, strong bases, strong oxidizing agents, strong reducing agents.
Decomposition products:	No hazardous decomposition products are known. Under fire events, products of combustion and decomposition will depend on other materials present in the fire and the fire conditions. Burning will produce CO2, CO and minute amounts of N2, HCN and H2O.
Hazardous Reactions:	None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Skin corrosion/irritation:	Dust powder may irritate skin.
Serious eye damage/irritation:	Particles in the eyes because of abrasive action may cause irritation and smarting.
Respiratory or skin sensitization:	Dust may irritate respiratory system or lungs.
Ingestion:	May cause discomfort if swallowed.
Toxicity Data:	Nuisance Dust 8 Hour TWA 10mg/ inhalable; 4 mg/ Respirable.

SECTION 12 - ECOLOGICAL INFORMATION

Ecology:	Not regarded as dangerous for the environment. Do not discharge into drains, sewers or waterways.
Marine Pollutant:	Not known.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste materials must be disposed in accordance with the Directive on Waste 2008/98/EC and any other applicable national or local regulations. Do not discharge into drains/surface or waters/groundwater. Dispose of material in a licensed facility.

SECTION 14 - TRANSPORT INFORMATION

UN Number:	None allocated.
UN Proper Shipping Name:	Not regulated.
Dangerous Goods Class:	None allocated.
Subsidiary Risk:	None allocated.
Packaging Group:	None allocated.
Hazchem Code:	None allocated.

SECTION 15 - REGULATORY INFORMATION

OSHA Hazard Communication Standard (29 CFR 1910.1200)	This product is a manufactured article containing fully cured carbon fiber and epoxy resin. It is not classified as hazardous under the OSHA Hazard Communication Standard.
TSCA (Toxic Substances Control Act)	This product qualifies as an article and is exempt from TSCA inventory listing requirements
WHMIS (2015)	Not classified as a hazardous product. This product qualifies as an article under the Workplace Hazardous Materials Information System (WHMIS).
Transportation Regulations (Local and National)	Not regulated as a dangerous good.

SECTION 16 - OTHER INFORMATION

CAUTION: Carbon materials are electrical conductors. Take the necessary precautions to remove all risk of contact with a source of electricity. The information contained herein is, to the best of our knowledge and belief, accurate and current as of the date of this SDS. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representation or warranties, either expressed or implied, as to its correctness or completeness, or as of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers or as to the results or reliance of this product. It is the responsibility of the user to comply with all applicable federal, state and local laws and regulations.