

SAFETY DATA SHEET

Product Category: *FRP with Carbon Fiber*

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Type: Article

Manufacturer's Name: Strongwell Corporation
400 Commonwealth Avenue
Bristol, VA 24210

Emergency Telephone No.: 276-645-8000

24 Hour Emergency Telephone Numbers

Chemtrec (US transportation): (800) 424-9300
Canutec (Canadian Transportation): (613) 996-6666
Poison Control Center (Medical): (877) 800-5553

SECTION 2 - HAZARDS IDENTIFICATION

As manufactured, this product is considered non-hazardous.

Caution: product will form combustible dust and particulate matter during drilling, grinding, cutting or sanding operations. Carbon fiber is electrically conductive.

CLASSIFICATION: This product meets the definition of "article" under 29cfr1910-1200(c). A manufactured item (i) which is formed to a specific shape or design during its manufacture; (ii) which has end function(s) dependent in whole or part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities of hazardous chemicals, and does not pose a physical hazard or health risk.

GHS LABEL:



HAZARD STATEMENT: Product may form combustible/conductive dust and particulate matter during drilling, grinding, cutting, or sanding operations. Refer to NFPA 654 for guidance on prevention of fire and dust explosions.

H317: MAY CAUSE AN ALLERGIC SKIN REACTION

H320: MAY CAUSE EYE IRRITATION

PRECAUTIONARY STATEMENTS:

P261: AVOID BREATHING DUST/FUME/GAS/MIST/VAPORS/SPRAY



P273: AVOID RELEASE TO THE ENVIRONMENT

P280: WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/ EYE PROTECTION/FACE PROTECTION

POTENTIAL ACUTE HEALTH EFFECTS

INHALATION: Nuisance dust from machining may cause irritation.

EYES: Nuisance dust from machining may cause irritation.

SKIN CONTACT: No effects expected under normal use. Nuisance dust from machining may cause irritation.

INGESTION: Unlikely under normal use.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

FRP with Carbon Fiber products are composed of a mixture of resin, inorganic fillers, pigments, processing additives, and carbon fiber reinforcement. During the manufacturing process, the mixture is cured and hardened into a solid, stable material that is non-hazardous when handled properly and in accordance with good industrial hygiene practices.

CHEMICAL NAME	% BY VOLUME	CAS #
CARBON FIBER	62-70%	7440-44-0

SECTION 4 – FIRST AID MEASURES

EYES: Do not rub eyes. While holding the eyelid(s) open, flush with lukewarm, gently flowing water for 5 minutes or until the particle/dust is removed. Obtain medical attention if needed.

SKIN: Wash with soap and water.

INGESTION: Ingestion is unlikely with normal use.

INHALATION: If exposed to excessive levels of dust, remove to fresh air and get medical attention if cough or other symptoms develop.

SECTION 5 – FIRE FIGHTING MEASURES

FLASH POINT: Not flammable.

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, or foam; do not use full water jet.

FIRE FIGHTING PROCEDURES: Do not inhale combustion gases. Use self-containing breathing apparatus.

FIRE FIGHTING EQUIPMENT: ABC fire extinguisher, dry chemical.



UNUSUAL FIRE/EXPLOSION HAZARDS: Carbon dusts are normally not explosive, but may weakly contribute if an event is initiated by another explosive dust or gas. Carbon dusts are electrically conductive; dust accumulations may cause electrical short circuits or other electrical malfunction.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS:

Avoid dust generation during processing as dust is electrically conductive. Dust should not be allowed to accumulate and may form an explosive mixture in excessive concentrations.

SPECIAL PROTECTIVE EQUIPMENT: Non-sparking tools should be used. Wear safety glasses, long sleeve shirt, and long pants. Carbon fiber is electrically conductive.

SECTION 7 – HANDLING AND STORAGE

GENERAL PROCEDURES: Avoid contact with eyes, skin, and clothing. Wear proper gloves when handling product.

HANDLING: Protect electrical equipment from contact with airborne particles and filaments to avoid possible damage caused by electrical shorts. Refer to NFPA 654 for additional guidance on safe handling of combustible dusts.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Component	OSHA PELs (Permissible Exposure Limits for the workplace)	ACGIH TLV's (Threshold Limit Values)
Particulate dust	TWA: 15.0 mg/m ³ (total dust)	TWA: 5.0 mg/m ³ (inhalable fraction)
Particulate dust	TWA: 5.0 mg/m ³ (respirable fraction)	TWA: 1 fiber/cm ³ (respirable fraction)

GENERAL PROTECTIVE MEASURES: Do not inhale dust.

EYE/FACE PROTECTION: Wear safety goggles when process, cutting, grinding, etc.

PROTECTIVE CLOTHING: Wear protective clothing to minimize the potential for skin contact with dust. Irritation may occur from exposure to dust.

RESPIRATORY PROTECTION: If respirable fibers/dust are generated, use HEPA respiratory protection. Dust may cause irritation of mucus membranes and respiratory tract.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Low to none

COLOR: Varied

THERMAL DECOMPOSITION: N/A

SOLUBILITY IN WATER: Insoluble

SECTION 10 – STABILITY AND REACTIVITY

STABILITY: Stable under normal handling and storage conditions.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions of use.

ELECTRICALLY CONDUCTIVE: Yes

CONDITIONS TO AVOID: Flames; extreme heat.

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

SECTION 11 – TOXICOLOGICAL INFORMATION

No toxicological data is available for this product.

SECTION 12 – ECOLOGICAL INFORMATION

No ecological data is available for this product.

SECTION 13 – DISPOSAL CONSIDERATIONS

As supplied, this product is not hazardous. Dispose of in industrially approved landfills. Consult federal, state, and local regulations for proper disposal.

SECTION 14 – TRANSPORT INFORMATION

THIS PRODUCT IS NOT REGULATED AS DANGEROUS OR HAZARDOUS GOODS FOR SHIPPING.

SHIPPING SYMBOLS/PLACARDS: N/A

SECTION 15 – REGULATORY INFORMATION

HMIS RATING		NFPA CODES	
HEALTH	1	0	0
FLAMMABILITY	0	1	0
PHYSICAL HAZARD	0		
PERSONAL PROTECTION	B		

U.S. EPA CERCLA: NA

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORY: NA

RCRA STATUS: This product is a solid and can be discarded in a landfill. This product, if discarded as a solid, is not a federal RCRA hazardous waste. Processing, use, or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations.

CALIFORNIA PROPOSITION 65: Raw materials used during the manufacture of these products contain chemicals listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Prop 65) as either a carcinogen or a reproductive toxicant.

SECTION 16 – OTHER INFORMATION

PREPARED BY: STRONGWELL EHS Department

Date Updated: March 3, 2017

DISCLAIMER:

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