

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

COMPANY ADDRESS:

FLEXOFIBERS EUROPE SL Av. Monte Boyal Casarrubios del Monte 45950 Toledo Spain.

EMERGENCY TELEPHONE NUMBERS: +34 663 294 720

PRODUCT NAME : **FLEXOFIBER FX RANGE**
CHEMICAL NAME : (Steel) no chemical compound formula
PRODUCT USE : Steel fiber for fiber reinforced concrete mix
DESCRIPTION : Steel wires from tire recycling, can contain traces of rubber and nylon fiber

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

Steel fibers

HEALTH HAZARDS: May be harmful if swallowed, absorbed through skin, or inhaled. Mildly irritating to the eyes and skin.

PHYSICAL HAZARDS: Skin puncture, eye damage

ENVIRONMENTAL HAZARDS: CORROSION AND POLLUTION



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SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

COMPONENT	PERCENTAGE	CAS NUMBER
STEEL	99.9	N/A
RUBBER / NYLON	0.1	N/A

SECTION 4 - FIRST AID MEASURES

First Aid responders should use protective equipment in Section 8 if there is a potential for exposure to product.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have a product container or label with you when calling a poison control center or doctor or going for treatment.

NOTE TO PHYSICIAN: No specific antidote, treat symptomatically.



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SECTION 5 - FIRE FIGHTING MEASURES

National Fire Protection Rating (NFPA)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

FLASHPOINT: Steel is just the element iron that has been processed to control the amount of carbon. Iron, out of the ground, melts at around 1510 degrees C (2750°F). Steel often melts at around 1370 degrees C (2500°F).

EXTINGUISHING MEDIA: Use foam, dry chemical, or water spray.

FIRE AND EXPLOSION HAZARD: Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

FIRE FIGHTING INSTRUCTIONS: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff. Minimize use of water to prevent environmental contamination

FIRE FIGHTING EQUIPMENT: Self-contained breathing apparatus with full face piece.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.



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LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

SECTION 7 - HANDLING AND STORAGE

KEEP OUT OF REACH OF CHILDREN!

HANDLING: Use only in a well-ventilated area. Minimize dust generation and accumulation.

STORAGE: Keep container closed when not in use. Keep away from food, feed and drinking water. Store in a well-ventilated dry place.

Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS: Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION - Safety goggles or glasses with side shields.

CLOTHING - Long-sleeved shirt and long pants, Chemical-resistant footwear plus socks

GLOVES – Puncture resistant gloves

RESPIRATOR – Not required when handled under normal conditions. When handling in enclosed areas with inadequate ventilation, use a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Follow manufacturer's instructions for cleaning and maintaining PPE.



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USER SAFETY RECOMMENDATIONS:

1. Always wear eye protection
2. Wash hands before eating, drinking, and chewing gum, using tobacco, or using the toilet.
3. Long sleeves are highly recommended

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Steel wires
Odor:	No odor
pH:	5.9 – 7.9
Melting Point:	1510 °C
Boiling Point:	No data
Flash Point:	>1000°C
Evaporation Rate:	No data
Flammability:	Not flammable
Flammability Limits:	Not applicable
Bulk Density:	(660 kg/m ³)
Solubility:	No data
Partition Coefficient:	log Pow = 0.57 @ 25°C (Imidacloprid)
Auto-Ignition Temperature:	No data
Decomposition Temperature:	No data

*Listed density is an approximate value and does not necessarily represent that of a specific batch.

Elemento Element	Metodo Method	Referencias muestras / Sample reference				
		REF.1	REF.2	REF.3	REF.4	REF.5
C* %	Absorción Infrarroja	0,83	0,81		0,79	0,86
S* %	Absorción Infrarroja	0,009	0,009		0,011	0,010
Si %	Espectrometría de emisión óptica (ICP-OES)	0,20	0,19	0,15	0,20	0,19
Mn %	Espectrometría de emisión óptica (ICP-OES)	0,51	0,48	0,47	0,5	0,5
P %	Espectrometría de emisión óptica (ICP-OES)	0,010	0,010	0,010	0,010	0,010
C = Carbono		REF1= Planta Valoriza en Chiloeches-España				
S = Azufre		REF2= Planta American Tire Recycling en Miami-Estados Unidos				
Si = Silicio		REF3= Planta FFU Production en Kiev-Ucrania				
Mn = Manganeso		REF4= Planta Grupo Soledad en Elche-España				
P = Fosforo		REF5= Planta GlobalTire Recycling en Wildwood-Estdos Unidos				



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SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY: Non-reactive

CHEMICAL STABILITY: Stable under normal conditions, however, may decompose if heated.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization

INCOMPATIBLE MATERIALS: None known

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity data from similar formulation

ACUTE TOXICITY:

Oral LD ₅₀ (rat)	- >1,100 mg/Kg
Dermal LD ₅₀ (rat)	- >2,000 mg/Kg
Inhalation LC ₅₀ (rat)	- >2.0 mg/L
Eye Irritation (rabbit)	- Mild irritant
Skin Irritation (rabbit)	- Slight irritant
Sensitization (guinea pig)	- Non-sensitizer

TERATOGENICITY: No reproductive or teratogenic (birth defect) effects at normal exposure levels.

MUTAGENICITY: Little or no evidence of mutagenic effects during in vivo or in vitro studies.



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SECTION 12 - DISPOSAL CONSIDERATIONS

WASTE: Dispose of in accordance with applicable Federal, state and local laws and regulations.

CONTAINER: Steel Recycle container. Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

SECTION 13 - TRANSPORT INFORMATION

SHIPPING DESCRIPTION: Not regulated by DOT for ground transport

TRANSPORT HAZARD CLASS: N/A

UN NUMBER: N/A

DOT PACKING GROUP: N/A

SECTION 14 - OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of Albaugh's knowledge. Albaugh makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

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