



# SAFETY DATA SHEET

## 1. Identification

Product identifier	Nycon-SF
Other means of identification	
SDS number	6010
Synonym(s)	Steel fiber, SF Type I needles, SF Type I Hooked end, SF Type II, SF Type V
Recommended use	Concrete / Mortar reinforcement fibers
Recommended restrictions	None known

### Manufacturer/Importer/Supplier/Distributor information

Nycon Corporation  
300 Ben Fairless Drive  
Fairless Hills, PA 19030  
USA  
Emergency telephone : 1-800-456-9266  
General Information : Phone: 1-215-310-2139  
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## 2. Hazard(s) identification

Physical hazards	Not classified
Health hazards	Not classified
OSHA defined hazards	None
<b>Label elements</b>	
Hazard symbol	None
Signal word	Warning
Hazard Statement	May form combustible dust concentrations in the air
Prevention	Not assigned
Response	Not assigned
Storage	Not assigned
Disposal	Dispose of or recycle in accordance with local and/or state laws
Hazard(s) not otherwise classified	N/A

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Iron	Fe	7439-89-6	95-99%
Manganese	Mn	7439-96-5	<2%
Chromium	Cr	7440-47-3	<1%
Nickel	Ni	7440-02-0	<1%
Titanium	Ti	7440-32-6	<1%
Phosphorus	Po	7723-14-0	<.5%
Carbon	C	7440-44-0	<.25%

Composition comments	Steels are alloys of iron and other elements, primarily carbon, widely used in construction and other applications because of their high tensile strengths and low costs. Carbon, other elements, and inclusions within iron act as hardening agents that prevent the movement of dislocations that otherwise occur in the crystal lattices of iron atoms.
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#### 4. First-aid Measures

	Inhalation	Remove to fresh air. check for clear airway, breathing and presence of pulse. If necessary administer CPR. Consult a physician immediately.
	Skin contact	Maintain good personal hygiene. wash affected area with mild soap and water seek
	Eye contact	Flush eyes with plenty of water for atleast 15 min. seek medical attention if irritation
	Ingestion	Rare in industry. dust may irritate mouth and gastrointestinal tract. If ingested, seek medical attention promptly.
Most important symptoms/effects, acute and delayed :	Inhalation	May cause shortness of breath, tightness of the chest, a sore throat, and cough
	Skin	May cause redness and or itching
	Eyes	May cause Itching, burning, redness, and tearing
	Ingestion	With large amounts ingested may cause gastrointestinal blockage
Indication of immediate medical attention and special treatment needed		Provide general supportive measures and treat symptomatically.
General information		Ensure that employees are aware of the materials involved, and take precautions to protect themselves

#### 5. Fire-fighting measures

Suitable extinguishing media	Non-flammable. Will not support combustion. Not applicable for solid product. Use extinguishers appropriate for surrounding materials.
Unsuitable extinguishing media	Do not use water on molten metal.
Specific hazards arising from the chemical	Not applicable for solid product.
Special protective equipment and precautions for firefighting	Wear self-contained breathing apparatus and protective suit.
Fire-fighting equipment / instructions	Use standard firefighting procedures and consider the hazards of other involved material

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Use personal protective equipment (PPE).
Methods and materials for containment and clean up	Land Spill: Spilled material should be swept up and discarded. Comply with applicable federal, state and local regulations. Water Spill: Notify local authorities if spilled in waterway or sewer. Skim from surface of water if possible. Waste Disposal: Reclaim where possible. Dispose of in accordance with local and state regulations. This is not an RCRA
Environmental precautions	No special environmental precautions required

## 7. Handling and storage

Precautions for safe handling	Not applicable to steel in solid state. Operations with the potential for generating high concentrations of airborne particulates should be evaluated and controlled as necessary. Practice good housekeeping. Avoid breathing metal fumes and/or dust.
Conditions for safe storage, including and incompatibilities	Keep in tightly closed and dry containers. To maintain product quality, do not store in heat or direct sunlight. Keep from freezing. Routine housekeeping should be done to ensure that dust does not accumulate on surfaces.

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Provide mechanical ventilation; in general such ventilation should be provided at compounding/converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material.

### Individual protection measures, such as personal protective equipment

Eye/face protection	Wear safety glasses in compliance with OSHA regulations
Hand protection	Wear clean, long-sleeved, body-covering clothing.
Other	N/A
Respiratory protection	If handling at elevated temperatures and overexposure has been determined, an air-respirator is advised in the absence of proper environmental control.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary
General hygiene consideration	Wash hands before breaks and immediately after handling product

## 9. Physical and chemical properties

### Appearance

Physical state	Solid
Form	Fibers
Color	Soild gray-black or bright
Odor	No significant odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	1370°C (2500°F)
Initial boiling point and boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability ( solid, gas )	Not available

### Upper/lower flammability or explosive limits

Flammability limit - lower %	Not available
Flammability limit - lower %	Not available

Explosive limit - lower %	Not available
Explosive limit - upper %	Not available
Vapor pressure/density	Not available
Specific gravity	Not available
Relative density	7.86
Solubility(ies)	Insoluble
Partiton coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

## 10. Stability and reactivity

Reactivity	Not determined for product in solid form.
Chemical stability	Material is stable under normal conditions
Possibility of hazardous reactions	No Dangourous reactions known under conditions of normal use
Conditions to avoid	Contact with mineral acids will release flammable hydrogen gas. Dust formation.
Incompatible materials	Yes, strong acids.
Hazardous decomposition products	Not Applicable.

## 11. Toxicological infomation

### Information on likely routed of exposure

Ingestion	Ingestion is not likely route of exposeure. if ingested seek medical attention
Inhalation	Remove person to fresh air. If irritation develops obtain medical attention.
Skin contact	If irritation develops, flush with running water. Wash affected area with soap and water
Eye contact	If irritation develops do not scrach or rub, flush with running water for 10-15 minutes.
Symptoms related to the Physical, chemical and toxicological characteristics	See information on likely routes of exposure.

### Information on toxicological effects

Acute toxicity	Not available
Skin corrosion/irritation	Not available
Serious eye damage/eye irritation	Not available
Respiratory sensitization	Not available
Skin sensation	Not available

Germ cell mutagenicity	Not available
Carcinogenicity	International Agency for Research on Cancer (IARC): Group3 - NOT classifiable as to its carcinogenicity to humans.
Reproductive toxicity	Not available
Specific target organ toxicity single exposure	Not available
Specific target organ toxicity repeat exposure	Not available
Aspiration hazard	Not likely, due to the form of the product
Chronic effects	None Known
Further information	Exposure to powder or dust may be irritating to eyes, nose and throat.

## 12. Ecological information

Ecotoxicity	No known or expected ecotoxicity.
Persistence and degradability	Not available
Bioaccumulative potential	Not available
Mobility in soil	Not available
Other adverse effects	Not available

## 13. Disposal considerations

Disposal instructions	Dispose in accordance with all applicable regulations
Waste from residue / unused product	Empty containers or liners may retain so product residues. this material and its container must be disposed of in a safe manner
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling

## 14. Transport information

DOT	Not regulated
IATA	Not regulated
IMDG	Not regulated

## 15. Regulatory information

US Federal Regulations	This Material is not Hazardous by OSHA Hazardous Communication Standard 29 CFR 1910.1200
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### Superfund Amendments and Reauthorization Act of 1986 (SARA) (Y/N)

Hazard categories : Immediate Hazard	No
Delayed hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous Chemical	Yes

## 16. Other information, including date of preparation or last revision

Issue date	Jan. 04, 2016
Revision date	Jan. 04, 2016
Version #	1.0
Futher information	Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions frm the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS ratings : (Scale)

Health	1	Flammability	0	Physical hazard	0
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NFPA ratings : (Scale)

Health	0	Flammability	0	Instability	0
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List of abbreviations :

IARC - International Agency for Research and Cancer.

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