



SAFETY DATA SHEET

1. Identification

Product identifier	Nycon-SSF
Other means of identification	
SDS number	6011
Synonym(s)	Stainless steel fiber
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
fax: 215-310-2138
E-mail : sales@nycon.com

2. Hazard(s) identification

Physical hazards	Not classified
Health hazards	Not classified
OSHA defined hazards	None
Label elements	
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	0-5%
Chromium	Cr	7440-47-3	0-5%
Molybdenum	Mb	7439-98-7	0-2%
Cobalt	Co	7440-48-4	0-2%
Silicon	Si	7440-21-3	<.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 idustry. dust may irritate mouth and gastrontestinal 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

1530°C (2786°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
Decompostion temperature	Not available
Viscosity	Not available

10. Stability and reactivity

Reactivity	Not determined for product in solid form.
Chemical stabilty	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
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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

HMIS ratings : (Scale)

Health 1 Flammability 0 Physical hazard 0

NFPA ratings : (Scale)

Health 0 Flammability 0 Instability 0

List of abbreviations :

IARC - International Agency for Research and Cancer.

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