



CONCRETE SYSTEMS

6025 Lee Highway, Suite 425, PO Box 22788  
Chattanooga, TN 37422. USA

# Material Safety Data Sheet

## 1 PRODUCT IDENTIFICATION AND COMPANY INFORMATION

**PRODUCT TYPE:** Bright steel fibres for concrete reinforcement

**TRADE NAMES:** Novocon®, Xorex®, Novotex®

**CONTACT:** Customer Service (North America)  
Propex Concrete Systems  
4019 Industry Drive  
Chattanooga, TN 37416  
1-800-368-2888 or 1-800-634-6374

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S41 7SL  
United Kingdom  
+ 44- (0)1246-564200

This Material Safety data sheet complies with 29 CFR 1910.1200 OSHA Communication Standard and 91/155/EEC Safety Data Sheets Directive as amended by Directive 93/112/EC

## 2 COMPOSITION / INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS#</u>	<u>CONTENTS(%WT/WT)</u>
Steel fibre composed of a mixture of the following:	N/A	100%
Base Metal Iron (FE)	7439-89-6	Various
Manganese (Mn)	7439-96-5	Various
Carbon (C)	7440-44-0	Various
Silicon (Si)	7440-21-3	Various

### 3 HAZARDS IDENTIFICATION

**OVERVIEW:** Based upon data available to Propex Inc., this product is not hazardous under OSHA Hazard Communication (29 CFR 1910.1200) and EC Directive 93/21/EEC as amended by 96/54/EC. Strong Acids react with steel fibres to produce flammable Hydrogen gas.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATING:	HEALTH:	0
	FLAMMABILITY:	0
	REACTIVITY:	1

### 4 FIRST AID MEASURES

**EYES:** As for any foreign body, use eyewash. If accompanied by pain or irritation, consult physician.

**SKIN:** Steel fibres can create cuts or puncture wounds. Treat symptomatically.

**INHALATION:**

**INGESTION:**

### 5 FIRE FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, % BY VOLUME	LOWER: N/A	UPPER: N/A
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**EXTINGUISHING MEDIA:** N/A

**UNUSUAL FIRE OR EXPLOSION HAZARDS:** Reaction with strong acids will liberate Hydrogen gas.

**SPECIAL FIRE FIGHTING PROCEDURES:** Steel products in the solid state present no fire or explosion hazard.

### 6 ACCIDENTAL RELEASE MEASURES

Product requires no spill or leak containment. Dispose of damaged material in accordance with all governmental regulations.

## 7 HANDLING AND STORAGE

**STORAGE:** Store away from oxidizing materials and strong acids in a cool dry place.

**HANDLING:** No special handling required.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION REQUIREMENTS:** Not required for normal use

**PERSONAL PROTECTIVE EQUIPMENT:**

<b>EYE PROTECTION:</b>	Not required unless physical contact with eyes is likely.
<b>HAND AND SKIN PROTECTION:</b>	Work gloves are recommended for handling bags of fibre or loose fibre
<b>RESPIRATORY PROTECTION:</b>	Not required.
<b>OTHER REQUIRED EQUIPMENT:</b>	Standard work clothing and shoes.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form</b>	Fibrous material packaged in cardboard boxes
<b>Appearance</b>	Bright grey metal fiber
<b>Odor</b>	Essentially Odorless
<b>pH</b>	N/A
<b>Melting Point</b>	2500°F (1371°C)
<b>Solubility in Water</b>	Insoluble
<b>Specific Gravity</b>	Approximately 7 to 8
<b>Vapor Density</b>	N/A
<b>Boiling Point</b>	N/A
<b>% Solids:</b>	~100%
<b>Flash Point:</b>	N/A
<b>Autoignition Temperature:</b>	N/A

## 10 STABILITY AND REACTIVITY

STABLE <input checked="" type="checkbox"/>	UNSTABLE <input type="checkbox"/>
CONDITIONS TO AVOID:	Store indoors away from water
MATERIALS TO AVOID:	Strong oxidizing agents and strong acids
HAZARDOUS POLYMERIZATION:	Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
HAZARDOUS COMBUSTION PRODUCTS:	Inhalation of high concentrations of freshly formed oxide fumes may cause metal fume fever characterized by a metallic taste in the mouth, dryness and irritation of the throat and influenza type symptoms.

## 11 TOXICOLOGICAL INFORMATION

LISTED AS CARCINOGEN BY:	IARC: No NTP: No OSHA: No
PEL(OSHA Permissible Exposure Limit):	None established
TLV(ACGIH Threshold Limit):	Base Metal Iron (FE) 5 (as Iron Oxide) Manganese (Mn) 5 (as Dust) Carbon (C) None Established Silicon (Si) 10 (Total Dust)
<b><u>ROUTES OF EXPOSURE</u></b>	
INHALATION:	Not Likely
SKIN CONTACT:	Likely
SKIN ABSORPTION:	N/A
EYE CONTACT:	Likely
INGESTION:	Not Likely
<b><u>EFFECTS OF OVEREXPOSURE</u></b>	
ACUTE OVEREXPOSURE:	N/A
CHRONIC OVEREXPOSURE:	N/A

## 12 ECOLOGICAL INFORMATION

No data available.
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## 13 DISPOSAL CONSIDERATIONS

Transfer to an approved disposal area in accordance with all governmental regulations. Based on information available to Propex Inc., this material is not hazardous.

## 14 TRANSPORT INFORMATION

DOT CLASSIFICATION: Not controlled under DOT (United States)  
TDG CLASSIFICATION: No data available  
ADR/RID CLASSIFICATION: No data available  
IMO/IMDG CLASSIFICATION: No data available  
ICAO/IATA CLASSIFICATION: No data available

## 15 REGULATORY INFORMATION

Federal Regulations (USA): All materials in this product are listed on the TSCA inventory. This product contains no ingredients subject to reporting under SARA 313 (40 CFR Part 372) or SARA Section 311/312  
International Regulations: No data available

## 16 OTHER INFORMATION

The information contained herein is based on the data available to us and is believed to be correct. However, Propex Inc. makes no warranty, expressed or implied, regarding the accuracy of these data or the results to be obtained from the use thereof. Propex Inc. assumes no responsibility for the use of the product described herein.

### Revision History

- July 31, 2002: Convert format to comply with 91/155/EEC Safety Data Sheets Directive as amended by Directive 93/112/EC
- August, 2005 International Address change.