

**W. R. GRACE**  
MATERIAL SAFETY DATA SHEET

Product Name: STRUX 90/40  
MSDS ID Number: D-06059

MSDS Date: 08/24/2005

**SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** STRUX 90/40  
**MSDS Number:** D-06059  
**Cancelled MSDS Number:** D-05581  
**MSDS Date:** 08/24/2005  
**Chemical Family Name:** Polypropylene/Polyethylene Blend Fiber  
**Product Use:** Improve Mechanical Properties of Concrete  
**Chemical Formula:** Mixture-NA  
**CAS # (Chemical Abstracts Service Number):** Mixture-NA

**Manufactured by:**

W.R.Grace & Co.-Conn.  
62 Whittemore Avenue  
Cambridge, MA 02140

Grace Canada, Inc.  
294 Clements Road West  
Ajax, Ontario L1S 3C6

**In Case of Emergency Call:**

In USA: (617) 876-1400 In Canada: (905) 683-8561

**SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Ingredient</b>	<b>CAS#</b>	<b>Percent (max)</b>
Polypropylene/Polyethylene Fiber Blend	Mixture	100

**SECTION 3 - HAZARDS IDENTIFICATION**

**Emergency Overview:**

**Caution!**

May cause physical or mechanical irritation to eyes.

**HMIS Rating:**

Health: 1  
Flammability: 1  
Reactivity: 0  
Personal Protective Equipment: B (See Section 8)

**Potential Health Effects:**

**Inhalation:**

Acute inhalation not expected to result in adverse effects.  
Effects include: No other effects expected unless listed below.

**Eye Contact:**

May cause mechanical or physical irritation to eyes.

**Skin Contact:**

Acute skin contact is not expected to result in adverse effects.

**Skin Absorption:**

Not expected to be harmful if absorbed through the skin.

**Ingestion:**

Ingestion not expected to be harmful.  
Effects include the following: No other effects expected unless listed below.

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**SECTION 4 - FIRST AID MEASURES:**

**Skin Contact:**

May cause minor irritation due to scratching.

**Eye Contact:**

In case of contact, treat as an inert solid and remove as one would any foreign object. Do not rub eyes. Flush with plenty of water while lifting eyelids and rolling eyes. Consult a physician if blinking or irritation persists.

**Ingestion:**

Ingestion of this material is not expected to be harmful.  
Never give anything by mouth to an unconscious person.  
Do not induce vomiting.

**Inhalation:**

If symptoms develop, get fresh air. If symptoms persist, consult a physician.  
If breathing has stopped, give artificial respiration then oxygen if needed.

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**SECTION 5 - FIRE AND EXPLOSION HAZARD DATA**

<b>Flash Point:</b>	625°F (330°C)
<b>Flash Point Method:</b>	Estimated
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Auto-ignition Temperature:</b>	Not Available

**NFPA Rating:**

<b>Health:</b>	1
<b>Flammability:</b>	1
<b>Reactivity:</b>	0

**Extinguishing Media:** In case of fire, use water spray, dry chemical, Carbon dioxide or alcohol foam.

**Special Fire Fighting Procedures:**

Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to vapors or products of combustion exist. Water may be used to cool containers to prevent pressure build-up and possible auto-ignition or explosion. Avoid breathing hazardous vapors or products of combustion, keep upwind. Isolate area and keep unnecessary people away. Prevent run-off from fire control or dilution from entering streams or drinking water supplies.

No special procedures specific to this product.

**Unusual Fire and Explosion Hazards:**

None known for this product.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES:**

**Spills/Leaks:**

Sweep up or shovel spilled material and place in suitable containers for recycle or disposal.

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**SECTION 7 - HANDLING AND STORAGE**

**Precautionary Measures:**

Avoid contact with eyes and skin.

Wash clothing before reuse.

FOR PROFESSIONAL USE ONLY. KEEP OUT OF CHILDREN'S REACH.

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**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT**

**EXPOSURE GUIDELINES (US)**

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Particulates not otherwise regulated	10 mg/m3 TWA (inhalable particulate); 3 mg/m3 TWA (respirable particulate)	-	-	total dust: 15 mg/m3 TWA; respirable fraction: 5 mg/m3 TWA	-	-	-

**EXPOSURE GUIDELINES (CANADA)**

Employers should consult provincial regulatory limits for exposure guidelines which may vary locally.

**Engineering Controls:** Not generally required.

**Personal Protective Equipment:**

**Respiratory Protection:** Respiratory protection is not normally required. Wear NIOSH approved dust mask if necessary to prevent exposures above the limits specified above.

**Skin Protection:** Cotton work gloves.

**Eye Protection:** Wear safety glasses with side shields to avoid contact. At minimum, safety glasses with side shields should be worn where exposure to excessive dust or spray is likely.

**Work/Hygienic Practices:** Use good personal hygiene practices. None beyond those noted above.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical State:</b>	Solid
<b>Appearance/Odor:</b>	Opaque Grey
<b>Odor Threshold: (ppm)</b>	Not Determined
<b>pH:</b>	Not Applicable
<b>Vapor Pressure: (Mm Hg)</b>	Not Applicable
<b>Vapor Density: (Air = 1)</b>	Not Applicable
<b>Solubility In Water:</b>	Insoluble
<b>Specific Gravity: (Water = 1)</b>	~.9
<b>Evaporation Rate: (Butyl Acetate = 1)</b>	Not Applicable
<b>Boiling Point:</b>	N/A
<b>Viscosity:</b>	Unknown
<b>Bulk Density: (Pounds/Cubic Foot)(Pcf)</b>	~15 (as packaged)
<b>% Volatiles (gr/L): (70°F) (21°C)</b>	None

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Stable
<b>Conditions To Avoid:</b>	None known for this product.
<b>Hazardous Polymerization:</b>	Will not polymerize.
<b>Hazardous Decomposition Products:</b>	None known for this product.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Ingredient(No data unless listed.)**                      **CAS Number**                      **LD50 and LC50**

**Carcinogenicity:**

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Particulates not otherwise regulated	No	No	No	No	No	No

**Mutagenicity:**    No information available.  
**Teratogenicity:**    No information available.  
**Reproductive Toxicity:**    No information available.

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**SECTION 12 - ECOLOGICAL INFORMATION**

**Environmental Fate:**    No data available for product.  
**Ecotoxicity:**    No data available for product.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

**Waste Disposal Procedures:** Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations.

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**SECTION 14 - TRANSPORTATION INFORMATION**

**Proper Shipping Name:**    Not Applicable  
**UN/NA Number:**    Not Applicable  
**Domestic Hazard Class:**    Nonhazardous  
**Surface Freight Classification:**    Original Cloth, Fabric or Piece Goods  
**Label/Placard Required:**    Not Applicable

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**SECTION 15 - REGULATORY INFORMATION**

**REGULATORY CHEMICAL LISTS:**

**CERCLA (Comprehensive Response Compensation and Liability Act):**  
**(None present unless listed below)**

<b><u>Chemical Name</u></b>	<b><u>CAS #</u></b>	<b><u>Wt %</u></b>	<b><u>CERCLA RQ</u></b>
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**SARA Title III (Superfund Amendments and Reauthorization Act)**

**SARA Section 312/Tier I & II Hazard Categories:**

Health Immediate (acute)	No
Health Delayed (chronic)	No
Flammable	No
Reactive	No
Pressure	No

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**302 Reportable Ingredients (Identification Threshold 1%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>	<u>SARA 302 TPQ</u>
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**313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

**Volatile Organic Content:** (gr/L)      Not Applicable

**WHMIS Classification(s):**      Not Controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

**State Regulatory Information:**

**California Proposition 65:**      This product does not contain substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**Massachusetts Hazardous Substance List(Identification threshold 0.001%(1ppm)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**New Jersey Hazardous Substance List(Identification threshold (0.1%)):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**Pennsylvania Hazardous Substance List(Identification threshold 0.01%):**

<u>Chemical Name</u>	<u>CAS #</u>	<u>Wt %</u>
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**CHEMICAL INVENTORY STATUS:**

All chemicals in this product are listed or exempt from listing in the following countries:

<b>US</b>	<b>CANADA</b>		<b>EUROPE</b>	<b>AUSTRALIA</b>	<b>JAPAN</b>	<b>KOREA</b>	<b>PHILIPPINES</b>
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	No	Yes	Yes	Not Determined	Yes	Yes

**SECTION 16 - OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

<u>Chemical Name</u>	<u>CAS Number</u>
Polypropylene	009003-07-0
1-Hexene, polymer with ethene	025213-02-9
Polyethylene	009002-88-4
Kieselguhr, soda ash flux-calcined	068855-54-9

**Prepared by:**      EH&S Department

**Approved by:**      EH&S Department

**Approved Date:**      08/24/2005

**Disclaimer:**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."