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## SAFETY DATA SHEET: Raptor® Composite Nails and Staples

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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Trade Name: Raptor® composite nails and staples having part numbers: B/18-044, B/18-063, B/18-080, B/18-100, F/15-050CP, F/15-063CP, F/15-075CP, F/15-100CP, F/15-125, F/15-125CP, F/15-150, F/15-150CP, F/15-200, F/14-225, P/16-044, P/16-063, P/16-075, P/18-044, P/18-063, P/18-080, P/18-100, S/05-25, S/05-37, S/05-55, SH/04-40, SH/05-37, SH/05-55, CL-050, CL-100, CL-275, CL-400, COIL-5/0, COIL-5/15, COIL-8/15, BULK-5, BULK-8, Copula-100, Copula-120, SPIKE-6

Recommended Use: Composites manufacturing, Fiberglass lay-up, Lumber wrap and tagging, Casket lining, Case goods tagging, House wrap, Boat building, Foam and Balsa core joining

Restrictions on Use: Not approved for in vivo use

Manufacturer: Utility Composites, Inc.  
2704A Meister Place  
Round Rock, TX 78664

Emergency phone: 512-255-8525

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### 2. HAZARDS IDENTIFICATION

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Potential health effects: Installation of staples using pneumatic staplers causes the staples to exit the stapler with enough force to penetrate skin and can cause punctures, lacerations, bleeding and discomfort.

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3. COMPOSITION/INFORMATION ON INGREDIENTS	Weight %*	CAS #
Synthetic thermoplastic *	> 50	unknown
Fiber Glass	< 50	65997-17-3

\*The thermoplastic and percentage of composition has been withheld as a trade secret.

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### 4. FIRST AID MEASURES

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**Eye contact:** In case of eye exposure to fumes due to the thermal decomposition of the product from burning, move personnel to fresh air. Rinse eye cautiously with water for several minutes, while eyelid being open. If eye irritation persists, seek medical attention/advice.

Protection: none required; however, use of eye protection is good practice.

**Skin Contact:** No significant irritation expected other than possible mechanical irritation. Wash off with soap and water. In case of injury, get immediate medical attention.

Protection: none required; however, use of protective gloves and clothing is good practice.

**Inhalation:** In case of inhalation of fumes due to the thermal decomposition of the product from burning, move personnel to fresh air. If problem persists, get immediate medical attention.

**Ingestion:** Not a likely route of exposure to this product, but expected to be relatively non-toxic; if a large amount is swallowed, get medical attention.

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### 5. FIRE-FIGHTING MEASURES

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Suitable extinguishing media: Water, Foam, Powder, Water Spray, Carbon dioxide (CO<sub>2</sub>).

Firefighting Instructions: Wear fire resistant personal protective equipment.

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### 6. ACCIDENTAL RELEASE MEASURES

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Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel): Spilled material is a slipping hazard. Sweep any product from floor.

Accidental Release Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

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## 7. HANDLING AND STORAGE

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Store at ambient temperatures. Keep containers closed to prevent contamination.  
Keep away from open flames, hot surfaces, and source of ignition.  
Avoid dust formation.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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Exposure limits:

Thermoplastic	Exposure Limits
PEL (OSHA)	5 mg/m <sup>3</sup> , TWA, total dust
TLV (ACGIH)	10 mg/m <sup>3</sup> , TWA, inhalable dust (2010) 3 mg/m <sup>3</sup> , TWA, respirable dust (2007)

Fiberglass

TLV (ACGIH)	5 mg/m <sup>3</sup> TWA, inhalable fraction
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Wear safety glasses with side-shields when installing the staples.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State:	Solid plastic staples Odor: Odorless Appearance: Natural color
Melting Point:	> 200 °C (> 392 °F)
Vapor Pressure (mmHg):	Negligible
Specific Gravity:	>1
Water Solubility:	Insoluble
% Volatiles:	Negligible
Flash Point:	Not applicable

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## 10. STABILITY AND REACTIVITY

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Stability:	Stable at normal temperatures and storage conditions.
Reactivity:	Not reactive under recommended conditions of handling storage and use.
Dangerous reactions:	None identified
Hazardous decomposition products:	Under fire conditions, staples may ignite and decompose to carbon monoxide, ammonia, aldehydes, nitriles, nitrogen oxides. The release of other hazardous decomposition products is possible.

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## 11. TOXICOLOGICAL INFORMATION

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Acute Toxicity:	Exposure to fiber glass can affect respiratory tract.
Eye Effects:	Non-irritating
Skin Effects:	Non-irritating
Other Effects:	None

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## 12. ECOLOGICAL INFORMATION

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General:	This material is not expected to be harmful to the environment.
Storage requirements:	No special requirements
Spills & Leaks:	N/A

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## 13. DISPOSAL CONSIDERATIONS

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Waste disposal: Disposal must be in accordance with applicable federal, state and local regulations. Determine waste classification at the time of disposal. Enclosed, controlled incineration is recommended unless directed otherwise by applicable ordinances. Not listed as RCRA Hazardous Waste (40 CFR 302).

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#### 14. TRANSPORT INFORMATION

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Not classified as dangerous in the meaning of transport regulations. Not regulated in transportation by DOT/IMO/IATA.

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#### 15. REGULATORY INFORMATION

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SARA Title III:

Section 302 (Extremely Hazardous Substance): None

Section 313 (Toxic Chemicals): None

Hazardous Substances : None

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#### 16. OTHER INFORMATION

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Supersedes: 01-11174-1, 01-11119-1, 01-11290-1, 01-01285-1, 01-05261-1

Document: STD 04155-1

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#### ISSUE INFORMATION

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By: Rajkiran R. Tiwari, PhD

Utility Composites Inc.

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The information in this SDS is offered to you in good faith as accurate at the time of issuance. The information represents our current data and best opinion as to the proper use in handling this material under normal conditions. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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**SAFETY DATA SHEET: S/05-37MD; SH/04-40MD; SH/05-37MD**

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**1. PRODUCT AND COMPANY IDENTIFICATION**

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Trade Name: Raptor® composite staples including part numbers: S/05-37MD; SH/04-40MD; SH/05-37MD

Recommended Use: Composites manufacturing, Fiberglass lay-up, Lumber wrap and tagging, Casket lining, Case goods tagging, House wrap, Boat building

Restrictions on Use: Not approved for in vivo use  
Not approved for food contact

Manufacturer: Utility Composites, Inc.  
2704A Meister Place  
Round Rock, TX 78664

Emergency phone: 512-255-8525

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**2. HAZARDS IDENTIFICATION**

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Potential health effects: Installation of staples using pneumatic staplers causes the staples to exit the stapler with enough force to penetrate skin and can cause punctures, lacerations, bleeding and discomfort.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

	Weight %*	CAS #
Synthetic thermoplastic*	> 50	unknown
Fiber Glass	< 45	65997-17-3
Additives	< 3	Unknown

\*The thermoplastic and percentage of composition has been withheld as a trade secret.

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**4. FIRST AID MEASURES**

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**Eye contact:** In case of eye exposure to fumes due to the thermal decomposition of the product from burning, move personnel to fresh air. Rinse eye cautiously with water for several minutes, while eyelid being open. If eye irritation persists: seek medical attention/advice.

Protection: none required; however, use of eye protection is good practice.

**Skin Contact:** No significant irritation expected other than possible mechanical irritation. Cleansing the skin with soap and water after use is advisable.

Protection: none required; however, use of protective gloves and clothing is good practice.

**Inhalation:** In case of inhalation of fumes due to the thermal decomposition of the product from burning, move personnel to fresh air. If problem persists, get immediate medical attention.

**Ingestion:** Not a likely route of exposure to this product, but expected to be relatively non-toxic. If a large amount is swallowed, get medical attention.

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**5. FIRE-FIGHTING MEASURES**

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Suitable extinguishing media: Water, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>).

Firefighting Instructions: Wear fire resistant personal protective equipment. Evacuate personnel and keep upwind of fire.

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**6. ACCIDENTAL RELEASE MEASURES**

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Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel): Spilled material is a slipping hazard. Sweep any product from floor.

Accidental Release Disposal: Dispose of in accordance with all applicable federal, state and local regulations.

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**7. HANDLING AND STORAGE**

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Store at ambient temperatures. Keep containers closed to prevent contamination.

Keep away from open flames, hot surfaces, and source of ignition. Avoid dust formation.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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Exposure limits:

Thermoplastic	Exposure limits
PEL (OSHA)	8 mg/m <sup>3</sup> , TWA, total dust
TLV (ACGIH)	10 mg/m <sup>3</sup> , TWA, total dust 3 mg/m <sup>3</sup> , TWA, respirable dust
Fiberglass, additives	
TLV (ACGIH)	5 mg/m <sup>3</sup> TWA, inhalable fraction

Wear safety glasses with side-shields when installing the staples.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State:	Solid plastic staples Odor: Odorless Appearance: Natural color
Melting Point:	> 200 °C (> 392 °F)
Vapor Pressure (mmHg):	Negligible
Specific Gravity:	>1
Water Solubility:	Insoluble
% Volatiles:	Negligible
Flash Point:	Not applicable

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**10. STABILITY AND REACTIVITY**

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Stability:	Stable at normal temperatures and storage conditions.
Materials to avoid:	Acids and oxidizers.
Reactivity:	Not reactive under recommended conditions of handling storage and use.
Dangerous reactions:	None identified
Hazardous decomposition products:	Under fire conditions, staples may ignite and decompose to carbon monoxide, cyclopentanone, ammonia (NH <sub>3</sub> ), and aldehydes. The release of other hazardous decomposition products is possible.

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**11. TOXICOLOGICAL INFORMATION**

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Acute Toxicity:	Exposure to fiber glass can affect respiratory tract.
Eye Effects:	Non-irritating
Skin Effects:	Non-irritating
Other Effects:	None

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**12. ECOLOGICAL INFORMATION**

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General:	This material is not expected to be harmful to the environment.
Storage requirements:	No special requirements
Spills & Leaks:	N/A

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**13. DISPOSAL CONSIDERATIONS**

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Waste disposal: Disposal must be in accordance with applicable federal, state and local regulations. Determine waste classification at the time of disposal. Recycling, incineration with energy output and landfill is recommended unless directed otherwise by applicable ordinances.

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**14. TRANSPORT INFORMATION**

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Not regulated in transportation by DOT/IMO/IATA.

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**15. REGULATORY INFORMATION**

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Not regulated

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**16. OTHER INFORMATION**

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**ISSUE INFORMATION**

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By: Rajkiran R. Tiwari, PhD

Utility Composites Inc.

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