
SAFETY DATA SHEET: S/05-37TR; SH/05-55TR

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Black Magic® composite staples including part numbers: S/05-37TR; SH/05-55TR
Recommended Use: Tire retreading
Restrictions on Use: Not approved for in vivo use
Not approved for food contact
Manufacturer: Utility Composites, Inc.
2704 A Meister Pl
Round Rock, TX 78664
Emergency phone: 512-255-8525

2. HAZARDS IDENTIFICATION

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.
Exposure to thermal decomposition products of this compound from burning may cause eye irritation with discomfort, tearing, or blurring of vision; or irritation of the upper respiratory passages, with coughing and discomfort.

3. COMPOSITION/INFORMATION ON INGREDIENTS	Weight %	CAS #
Synthetic thermoplastic mixture	> 98	unknown
Carbon Black	0.5-1.5	1333-86-4
Styrene	<0.2	100-42-5
Acrylonitrile	<0.1	107-13-1

4. FIRST AID MEASURES

Eye contact: In case of eye exposure to fumes resulting from thermal decomposition of the product from burning, 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 lung exposure to fumes due to the thermal decomposition of the product resulting from burning, remove personnel to fresh air. If problem persist, get 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, Dry powder, Sand, Water Spray, Carbon dioxide (CO₂)

Unsuitable extinguishing media: Avoid heavy water stream

Firefighting Instructions: Wear self-contained breathing apparatus and fire resistant personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SARA Title III:

Section 302 (Extremely Hazardous Substances): **NONE**

Section 311/312 (Hazard Categories): Immediate Health Hazard – Delayed Health Hazard: **NONE**

Section 313 (Toxic Chemicals): Styrene (CAS# 100-42-5) <0.25%

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste either by its listing or by its characteristics. According to RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24).

TSCA Status: In compliance with TSCA Inventory requirements for commercial use.

OSHA Hazard Communication Standard: NOT a Hazardous Chemical

Exposure limits:

Thermoplastic:	Exposure limits
PEL (OSHA) (Synthetic thermoplastic)	Not established
PEL (OSHA) (Styrene)	100 ppm TWA; C 200 ppm
PEL (OSHA) (Acrylonitrile)	NA
Carbon Black:	
PEL (OSHA)	3.5 mg/m ³ TWA

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid black plastic staples Odor: Slight or no odor Appearance: Black
Melting Point:	No sharp melting, but softens gradually over a wide range of temperatures
Vapor Pressure (mmHg):	Negligible
Specific Gravity:	~1
Water Solubility:	Insoluble
% Volatiles:	Negligible
Flash Point:	690 °F (366 °C)
Auto ignition Temp:	900 °F (366 °C)

10. STABILITY AND REACTIVITY

Stability:	Stable at normal temperatures and storage conditions.
Materials to avoid:	Strong acids and bases.
Reactivity:	Not reactive under recommended conditions of handling storage and use.
Dangerous reactions:	None identified
Hazardous decomposition products:	Under fire conditions, staples may ignite with intense heat and decompose to fume, carbon monoxide, carbon dioxide. The release of other hazardous decomposition products is possible.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified
Eye Effects:	Non-irritating
Skin Effects:	Non-irritating
Other Effects:	None

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

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. Avoid release to the environment.

14. TRANSPORT INFORMATION

This material is not regulated for transport.

15. REGULATORY INFORMATION

US and CANADA: No additional information available.
EU-Regulations: Classified according to Regulation (EC) No. 1272/2008 [CLP]: Not classified.
Classified according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD].

16. OTHER INFORMATION

Issued: 4-15-15
Supersedes: 01-11021-1, 01-4163-1, 01-05054-2
Document: TR 04155-1

ISSUE INFORMATION

By: Rajkiran R. Tiwari, PhD
Utility Composites Inc.

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.

SAFETY DATA SHEET: SH/05-37TR; SH/04-40TR

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Black Magic® composite staples including part numbers: SH/05-37TR;
SH/04-40TR
Recommended Use: Tire retreading
Restrictions on Use: Not approved for in vivo use
Not approved for food contact
Manufacturer: Utility Composites, Inc.
2704 A Meister Pl
Round Rock, TX 78664
Emergency phone: 512-255-8525

2. HAZARDS IDENTIFICATION

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.
Exposure to thermal decomposition products of this compound from burning may cause eye irritation with discomfort, tearing, or blurring of vision; or irritation of the upper respiratory passages, with coughing and discomfort.

3. COMPOSITION/INFORMATION ON INGREDIENTS	Weight %*	CAS #
Synthetic thermoplastic mixture	> 88	unknown
Carbon Black	0.5-1.5	1333-86-4
Styrene	<0.2	100-42-5
Acrylonitrile	<0.1	107-13-1
Fiber Glass	<10	65997-17-3

4. FIRST AID MEASURES

Eye contact: In case of eye exposure to fumes resulting from thermal decomposition of the product from burning, 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 lung exposure to fumes due to the thermal decomposition of the product resulting from burning, remove personnel to fresh air. If problem with breathing persist, get 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Foam, Dry powder, Sand, Water Spray, Carbon dioxide (CO₂)

Unsuitable extinguishing media: Avoid heavy water stream

Firefighting Instructions: Wear self-contained breathing apparatus and fire resistant personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

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.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid black plastic staples
	Odor: Odorless
	Appearance: Black
Melting Point:	No sharp melting, but softens gradually over a wide range of temperatures
Vapor Pressure (mmHg):	Negligible
Specific Gravity:	>1
Water Solubility:	Insoluble
% Volatiles:	Negligible
Flash Point:	Not applicable

10. STABILITY AND REACTIVITY

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 fume, carbon monoxide, carbon dioxide. The release of other hazardous decomposition products is possible.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not classified
Eye Effects:	Non-irritating
Skin Effects:	Non-irritating
Other Effects:	None

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Waste disposal: Disposal must be in accordance with applicable federal, state and local regulations. Determine waste classification at the time of disposal. Avoid release to the environment.

14. TRANSPORT INFORMATION

This material is not regulated for transport.

15. REGULATORY INFORMATION

SARA Title III:

Section 302 (Extremely Hazardous Substances): **NONE**

Section 311/312 (Hazard Categories): Immediate Health Hazard – Delayed Health Hazard: **NONE**

Section 313 (Toxic Chemicals): Styrene (CAS# 100-42-5) <0.25%

RCRA Status: If discarded in its purchased form, this product would not be a hazardous waste either by its listing or by its characteristics. According to RCRA, it is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24).

TSCA Status: In compliance with TSCA Inventory requirements for commercial use.
OSHA Hazard Communication Standard: NOT a Hazardous Chemical

16. OTHER INFORMATION

Issued: 04-15-15

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ISSUE INFORMATION

By: Pamela S. Tucker, PhD

Utility Composites Inc.

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