
MATERIAL SAFETY DATA SHEET

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Trade Name: Black Magic[®] composite staples including part number S/05-37TR, SH/05-55TR
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1. IMPORTANT COMPONENTS	%	CAS. NO.	OSHA PEL
Synthetic thermoplastic polymer	> 98	unknown	no PEL established
Carbon Black	0.5 - 1.5	1333-86-4	3.5 mg/m ³ TWA
Styrene	<0.2	100-42-5	100 ppmTWA; C 200 ppm
Acrylonitrile	<0.1	107-13-1	NA

2. PHYSICAL DATA

Physical State:	Solid
Odor and Appearance:	Plastic with slight or no odor
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)
Autoignition Temp:	900°F (518°C)

3. FIRE & EXPLOSION DATA

Fire fighting:	Do not enter fire area without proper protection including self-contained breathing apparatus (MESA/MISOH approved) and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products.
Extinguishing Media:	Water spray, dry chemical and foam.
Unusual Fire Hazard:	Burns vigorously with intense heat.
Hazardous Combustion Products:	Intense heat, smoke, carbon dioxide, carbon monoxide, hydrocarbon fragments, hydrogen cyanide.

4. STABILITY & REACTIVITY DATA

Stability:	Stable
Reactivity:	Not reactive under recommended conditions of handling storage and use.
Dangerous reactions:	None identified
Hazardous decomposition products:	If material is heated above melting temperature for extended time, fumes may be evolved and may include: styrene, acrylonitrile, ethylbenzene, acrolein, acetaldehyde, acetophenone, cumene, 4-vinylcyclohexene, phenols, toluene

5. ENVIRONMENTAL INFORMATION

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

6. HEALTH HAZARD INFORMATION

Eye Contact:	Direct contact with parts may cause irritation. First Aid: flush eyes with large amounts of water; get medical attention if irritation persists Protection: none required; however, use of eye protection is good practice
Skin Contact:	No significant irritation expected
Inhalation:	Although respiratory irritation by vapors at high temperatures would not be expected where adequate ventilation and proper incineration containment is utilized, inadequate ventilation and inadequate incineration containment may result in exposure to thermal degradation and decomposition products as indicated in Section 4 of the MSDS. The vapors of heated material may cause respiratory system irritation. First Aid: if adverse effects occur, remove to uncontaminated area; get medical attention Protection: avoid inhalation of fumes; use appropriate NIOSH/OSHA approved respirator based on airborne concentration of contaminants: half mask organic vapor respirator with dust/mist pre-filter
Ingestion:	No significant ingestion expected
Other:	Loose material may create a slipping hazard Secondary operations, such as grinding, sanding, or sawing can produce dust, which may present an explosion or respiratory hazard

7. TRANSPORTATION INFORMATION

Regulatory Status:	Not regulated
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ISSUE INFORMATION

By: Pamela S. Tucker, VP
Utility Composites International, Ltd

The information in this MSDS 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.