



MATERIAL SAFETY DATA SHEET

Product: Resistat® Fiber, Conductive PET and Nylon 6 Fiber, Carbon Suffused Nylon 6 Fiber

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: F9322, MERGE A073, A400, A450, A600, F721,
MANUFACTURER: Jarden Applied Materials
 1451 Sand Hill Road
 Enka, North Carolina 28728
 Telephone: 803-754-7011

EMERGENCY PHONE NUMBER: 1-800-535-5035 INFOTRAC

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:	Weight (%)	CAS NUMBER
Formic Acid	0.03 – 0.9 %	64-18-6
ACGIH TVL	STEL 10 PPM	
OSHA PEL	TWA 5 PPM	
Acetic Acid	0.7 – 2.1 %	64-19-7
ACGIH TLV	STEL 15 PPM	
OSHA PEL	TWA 10 PPM	
Carbon Black	5.0 – 15.0 %	1333-86-4
ACGIH TLV	TWA 3.5 MG/CU. M	
Polyethylene terephthalate (PEL/TLV NOT ESTABLISHED)	80.0 – 90.0 %	25038-59-9
Polycaprolactam (PEL/TLV NOT ESTABLISHED)	10.0 – 20.0 %	25038-54-4

This product contains varying levels of lubricating oils and finish components. The precise composition is considered confidential and will be disclosed only in case of medical emergency or in approved non-emergency situations.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Synthetic plastic fiber with slight characteristic odor. Fiber is not considered hazardous at ambient conditions.

Potential Health Effects

Primary Routes of Exposure:

Eyes: Product fines can cause mechanical irritation; eyes should be washed out immediately with water

Skin: Mechanical irritation may occur from particles

Inhalation: If large amounts of dust or fumes are inhaled, move to fresh air. Get medical attention if symptoms persist.

Ingestion: Not likely to be hazardous

No adverse health effects should occur in the normal processing and use of this product. If this product is heated during processing, residual organic acids may be released which can cause irritation to the eyes, nose, throat and upper respiratory tract. In case of heating, care should be taken to ensure air exposure limits are not exceeded.

Ingredients found on one of the OSHA/WHIMS designated carcinogen lists are provided below:

INGREDIENT NAME:

NTP STATUS

None

IARC STATUS

None

OSHA LIST

None

ACGIH STATUS

None

4. FIRST AID MEASURES

Skin: Prolonged contact may cause minor irritation. If irritation persists, seek medical attention.

Eyes: If irritated, flush with plenty of water; Seek medical attention if condition persists

Inhalation: Remove to fresh air; Seek medical attention if condition persists

Ingestion: No special precautions necessary,

Advice to physician: This product is essentially inert and non-toxic. .

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:

Flash Point:

Non volatile; combustible solid

Flash Point Method:

Not applicable

Auto-ignition Temperature:

Not determined

Upper Flame Limit (volume % in air):

Not applicable

Lower Flame Limit (volume % in air):

Not applicable

Flame Propagation Rate (solids):

Not applicable

OSHA Flammability Class:

Not applicable; solid material

Extinguishing Media:

Use water spray, dry chemical, foam, halon or CO2.

Fire fighters should wear self contained breathing apparatus (SCBA)..

6. ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILL OR OTHER RELEASE (always wear recommended personal protective equipment):

Sweep or vacuum material to avoid slipping hazard. Place in container for proper disposal.

No special precautionary measures should be needed under anticipated conditions of use.

7. HANDLING AND STORAGE

Normal Handling (Always wear recommended personal protective equipment): Avoid processing material above recommended thermal processing temperature. Read product technical data sheet before use, or contact technical service representative for specific advice. Avoid inhalation and/or skin contact with product dust. Avoid dust in contact with eyes.

Use local exhaust ventilation at all emission points. Wash thoroughly after handling.

MSDS 0900

03/28/09

Storage Recommendations: Open packages in a well ventilated area and allow any residual vapors to disperse. To maintain product quality, store in cool, dry area, in accordance with good housekeeping practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Good manufacturing practice and good industrial hygiene practice recommend the use of local exhaust ventilation at process emission points.

Personal Protective Equipment:

Skin Protection: No special protective clothing required; however, good safety and industrial hygiene practices should be followed.

Eye Protection: Safety glasses with side shields recommended as a minimum.

Respiratory Protection: If dusty conditions exist, use a mechanical filter respiratory approved by NIOSH.

Additional recommendations:

Exposure Guidelines: Operators performing grinding and machining of product should be reviewed to assure particulate levels are kept below recommended standards.

<u>Ingredient Name:</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>AEL (DuPont)</u>
Total dust	Not established	Not established	10 mg/m ³ , 8 Hr. TWA
Respirable dust			5 mg/m ³ , 8 Hr. TWA

If this product is heated, residual organic vapors may be released and additional protective equipment is recommended. Chemical goggles and a NIOSH approved respirator with organic/acid gas cartridge should be used if the acid vapor levels in the workplace are expected to be above the ACGIH TLV limits written in section 2.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Fiber
Color: Grey
Physical State: Solid
Odor: Vinegar
Odor Intensity: Faint

	Typical	Low/High	U.O.M.
Specific Gravity:	~ 1.14		
pH:	Not Available		

	Typical	Low/High	Deg	@	Pressure
Boiling Point:	Not Available				
Freezing Point:	~ 220		C	760	MM HG
Decomp. Temp.	~ 240		C	760	MM HG
Solubility in Water:	Insoluble				
Melting Point:	215 - 275 deg C				
Vapor Pressure:	Negligible				
Evaporation Rate:	Not Applicable				
% Volatile:	Not applicable				
Flash Point:	Not Applicable				

10. STABILITY AND REACTIVITY

Normally Stable (Conditions to Avoid): Product is stable under ordinary conditions of use and storage. Avoid exposure to open flame or temperatures exceeding optimum operating temperatures. Consult technical service personnel for recommended processing conditions.

Incompatibilities: Acids, bases and strong oxidizers.

Hazardous Decomposition Products: HNC, CO, CO2 AND NH3

Hazardous Polymerization: Will not occur

Temperatures above 240 deg. C, in the presence of air, will cause decomposition.

11. TOXICOLOGICAL INFORMATION

Immediate (Acute) Effects: Low hazard for usual industrial handling

Delayed (Subchronic and Chronic) Effects: No specific information available

Other Data: Not listed as a carcinogen

Organic Acids (acetic and formic) – These compounds have a pungent, penetrating odor which can be detected when a package is initially opened. If the product is heated during processing, residual acid vapor may be released. These compounds have a low oral toxicity but vapor exposure can cause transient eye and respiratory irritation.

12. ECOLOGICAL INFORMATION

No ecotoxicological information is available for this product. These products are not considered degradable or toxic in terms of their physical impact. Material is expected to have low aquatic toxicity because of its insolubility in water.

13. DISPOSAL CONSIDERATIONS

Is the unused product a RCRA hazardous waste if discarded? No

If yes, the RCRA ID number: Not Applicable

Other Disposal considerations: Preferred options for disposal are recycle, incineration with energy recovery and landfill. Treatment, storage, transportation, and disposal of product must comply with applicable federal, state, and local disposal laws or regulations.

14. TRANSPORTATION INFORMATION

US DOT (Department of Transportation): Not Regulated

Canadian TDG (Transportation of Dangerous Goods): Not Regulated

15. REGULATORY INFORMATION

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200

TOXIC SUBSTANCES CONTROL ACT (TSCA):

TSCA INVENTORY STATUS:

Listed on inventory;	NO
Not Listed Article:	YES

Carbon black is hazardous according to the OSHA HAZARD COMMUNICATION STANDARD; however, this component is embedded within the fiber and it is our experience that little to no exposure is encountered when working with this product. IARC has classified carbon black in Group 2B (sufficient evidence of carcinogenicity in animals).

TSCA – All components of this product are listed in the TSCA 8 (b) Inventory.

MSDS 0900

03/28/09

OTHER TSCA ISSUES: None

Domestic Substance List:

DSL – All components of this product are listed on the Canadian Domestic Substance List (DSL)

US FOOD AND DRUG ADMINISTRATION (FDA): Not Applicable

SARA TITLE III/CERCLA:

SARA/CERCLA HAZARDOUS SUBSTANCES:

Reportable Quantities (RQ) and/or “Threshold Planning Quantities (TPQs) do not exist for this product.

16. OTHER INFORMATION

CHANGES TO MSDS FROM PREVIOUS ISSUE DATE ARE DUE TO THE FOLLOWING:

Changed Company Name and logo.

This product is not hazardous according to the OSHA Hazard Communication Standard.

Resistat® is a registered trademark of Shakespeare® Conductive Fibers, LLC.

NATIONAL FIRE PROTECTION AGENCY (NFPA) AND NATIONAL PAINT AND COATINGS ASSOCIATION (NPCA) RATING CLASSIFICATION:

	<u>NFPA</u>	<u>HMIS</u>
Health	0	0
Flammability	1	1
Reactivity	0	0

Disclaimer:

The information contained herein is presented in good faith and is accurate to the best of our knowledge. Jarden can not guarantee that any hazards listed herein are the only ones which may exist. Jarden makes no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the material for their use. User must meet all applicable safety and health standards.

Refer to the appropriate technical bulletin for specific processing guide lines and good manufacturing practices.

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Safety/ Environmental Coordinator
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