



## ***MATERIAL SAFETY DATA SHEET***

**Product:** Monofilament produced from nylon copolymer resins.

### **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAMES:** 4115, BCCL-101, BCCL-108, BCCL-201, BCCL-208, FN-24, FN-25, FN-29, FN-35, FN-120, FN-129, MN-2C, MN-7, MN-7H, MN-7T, MN-11, MN-20, MN-24, MN-27, MN-28, MN-30, MN-40, MN-72, MN-73, MN-75, MN-76, MN-77, MN-78, MN-701, MN-710, MN-733, MX-2102E, NI-1014, NI-1022, NX-829, NX-1018, NX-1022, NX-1032, NX-1033

**PRODUCT USE:** For fabrication into fish line, trimmer line and other industrial products

**MANUFACTURER:** Jarden Applied Materials  
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**EMERGENCY PHONE NUMBER: 1-800-535-5035 INFOTRAC**

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>CHEMICAL NAME:</b>	<b>Weight (%)</b>	<b>CAS NUMBER</b>
Nylon 6 polymer	10 – 75	25038-54-4
Caprolactam	< 10	105-60-2
Nylon copolymer	20 – 90	24993-04-2
Additives	0 – 5	-----

### **3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** Synthetic plastic fiber with no significant odor. Fiber is not considered hazardous at ambient conditions. Exposure to fire will release irritating toxic fumes and vapors.

**Potential Health Effects:**

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

**Skin:** Mechanical irritation may occur from particles

**Inhalation:** Dust may produce mechanical irritation to mucous membranes. Move to fresh air. Get medical attention if symptoms persist

**Ingestion:** May cause gastrointestinal discomfort

**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:** Not likely to be hazardous; For irritation, flush with cool running water

**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:** If product is ingested, seek medical attention

**Advice to physician:** There are no known chronic effects associated with this material .

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE PROPERTIES:**

**Flash Point: (ASTM D1929)**

Not determined

**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 any standard agent (water spray, dry chemical, foam, or carbon dioxide)

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 and 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 getting dust in eyes. Use local exhaust ventilation at all emission points. Wash thoroughly after handling.

**Storage Recommendations:** To maintain product quality, store in cool, dry area.

**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:**

MSDS Number: 0060

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**Skin Protection:** Wear gloves when handling fiber. Wash hands after use.

**Eye Protection:** Wear safety glasses with side shields 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>
Caprolactam dust	1 mg/m <sup>3</sup> TWA	1 mg/m <sup>3</sup>
Caprolactam vapor	5 ppm, 23 mg/m <sup>3</sup> , TWA	5 ppm, 20 mg/m <sup>3</sup> , TWA
Product dust	10 mg/m <sup>3</sup> total dust, TWA	15 mg/m <sup>3</sup> total dust, TWA
Respirable dust		5 mg/m <sup>3</sup> , 8 hr, TWA

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Filament
<b>Physical State:</b>	Solid
<b>Odor:</b>	Possible slight organic odor
<b>Specific Gravity:</b>	1.10 - 1.14 (H <sub>2</sub> O = 1)
<b>Solubility in Water:</b>	Negligible
<b>pH:</b>	Not Applicable
<b>Boiling Point:</b>	Not Applicable
<b>Melting Point:</b>	390 – 420 deg F
<b>Vapor Pressure:</b>	Negligible
<b>Evaporation Rate:</b>	Not Applicable
<b>% Volatile:</b>	Not applicable
<b>Flash Point:</b>	Not Applicable
<b>Color:</b>	Clear to off-white (various if pigmented)

**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:** None known

**Hazardous Decomposition Products:** Thermal breakdown may involve a complex mixture of compounds including, but not limited to: carbon monoxide, ammonia, aliphatic amines, nitriles, ketones, and hydrogen cyanide which may be flammable, toxic, and/or irritating. The specific materials generated will depend on any additives and colorants used.

**Hazardous Polymerization:** Will not occur

**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

## 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:** All components are listed on the TSCA Inventory or are exempt under PMN regulations.

**OTHER TSCA ISSUES:** None

**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:**

Add new product. (NX-829)

### **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:** This product is NOT intended for use in medical implants.

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 Jarden bulletin for specific processing guide lines and good manufacturing practices.

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**CURRENT ISSUE DATE:** 17 September 2008

**PREVIOUS ISSUE DATE:** 14 April 2008

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