JADE ENGINEERED PLASTICS
JLON PTFE MATERIALS
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# MOLDED PTFE MATERIAL SAFETY DATA SHEET J-5500

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** JLON J-5500
**MANUFACTURER:** Jade Engineered Plastics
**ADDRESS:** 121 Broad Common Rd
Bristol RI 02809
EMERGENCY PHONE: 401-253-4440 (24 hours)
**Issue Date:** 03/01/2010
**Supercedes Date:** **N/A**
**Product Use:** Intended Use: Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts

## SECTION 2: INGREDIENTS

| Ingredient | C.A.S. No. | % by Wt | ACGIH TLV | OSHA PEL | Ceiling Limit Value |
|---|---|---|---|---|---|
| PTFE | 9002-84-0 | 80-90% | None | None | None |
| Polyimide | 150339-35-8 | 10-20% | None | None | None |

## SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

**NFPA Rating:** Health: 2; Flammability: 1; Reactivity: 0
**HMIS Classification:** Health: 2; Flammability: 1; Reactivity: 0
**Emergency Overview:** Dust from this product may be harmful if inhaled. High heat processing may liberate toxic gases. See sections 4, 5, & 10 for more information on thermal decomposition products.

**Potential Health Effects:**
**Inhalation:** High concentrations of airborne dust may cause irritation to the respiratory tract.
**Ingestion:** Ingestion may cause irritation to the gastrointestinal tract.
**Eye Contact:** May cause irritation to the eyes due to mechanical abrasion of particles.
**Skin Contact:** Generally does not cause skin irritation.
**Medical conditions**
**Aggravated by exposure:** None known.

**Specific Physical Form:** Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts
**Odor, Color:** None, Yellow
**General Physical Form:** Solid
**Immediate health, physical, and environmental hazards:** None

## SECTION 4: FIRST AID MEASURES

**Inhalation:** Remove person to fresh air. If cough or irritation develops, give a glass of water. Never give anything by mouth to an unconscious person. If systems persist, seek medical attention.
**Skin Contact:** Wash material from skin with plenty of soap and water.
**Eye Contact:** Flush eyes with plenty of water while holding eyelids open.
**If Swallowed:** If person is conscious, rinse mouth with water. Never give anything by mouth to an unconscious person.
**Notes to Physician:** High heat processing of this product liberates thermal composition gases, which, when inhaled, can result in polymer fume fever. This condition is characterized by influenza type symptoms (fever, cough, and malaise), which usually occurs within a few hours and resolves within 48 hours. Following severe exposure the patient should be kept under medical surveillance for at least 48 hours since delayed pulmonary edema may develop.

## SECTION 5: FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use media suitable for surrounding fire. Product does not support combustion or flame.
**Unusual Fire & Explosion:** None known

**Hazards:**
**Hazardous Decomposition:** See Section 10

**Products:**
**Autoignition temperature** *Not Applicable*
**Flash Point** *Not Applicable*

**Flammable Limits in Air**

**Flammable Limits - LEL** *Not Applicable*
**Flammable Limits - UEL** *Not Applicable*

**Fire Fighting Protective Equipment:** Exposure to extreme heat can give rise to thermal decomposition. Wear self-contained breathing apparatus (SCBA) to prevent inhalation of toxic thermal decomposition products.

**Specific Methods:** Evacuate area and restrict access to area. Use fire fighting methods suitable for surrounding fire. Product does not readily burn. Keep containers cool with water spray if possible

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Environmental Protection:** No special environmental precautions required.
**Methods for Clean-up:** Refer to Section 8 for exposure controls. Restrict area. Ensure adequate ventilation. Gently sweep or vacuum spilled material & collect for disposal. Mop or wipe residual from surface using water.

## SECTION 7: HANDLING AND STORAGE

**Safe Handling Precautions:** Avoid creating dust and heating above 260C (PTFE). If these conditions cannot be avoided, use adequate ventilation to capture dust or decomposition products at the source.

**Safe Storage Conditions:** Keep containers tightly closed in a cool, well ventilated place

**Incompatible Products:** None known

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Provide local exhaust ventilation in your process to capture dust or thermal decomposition gases at their source. Refer to the ACGIH Guide to Industrial Ventilation for design assistance.

**Hand Protection:** Rubber Gloves
**Eye Protection:** Wear tightly fitting goggles in a dusty environment.
**Hygiene Measures:** Avoid contact with skin, eyes, & personal clothing. Do not contaminate tobacco products. Wash hands thoroughly before eating.
**Exposure Limit:** Particulates (not otherwise regulated) with the following generic exposure limits: OSHA PEL: 15 $mg/m^3$ (total dust), 5 $mg/m^3$ (respirable fraction)

**Personal Protective Equipment:**

**Respiratory Protection:** Wear a NIOSH approved air-purifying respirator when needed to maintain dust exposures below the limits found in Section 2. Series 100 or HEPA filters are recommended. NOTE: A supplied air respirator or self-contained breathing apparatus (SCBA) must be used to protect against thermal decomposition products.

**Skin & Body Protection:** Wear full length clothes to prevent skin contact. Launder on a routine basis. Do not bring work clothes home.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts
**Color:** Not applicable
**Odor:** Not applicable
**Boiling Point/Range:** Not applicable
**Melting Point/Range:** Not applicable
**Flash Point (°F):** Not applicable
**Vapor Pressure:** Not applicable
**Vapor Density:** Not applicable
**Solubility in Water:** Insoluble
**Solubility in Other Solvents:** Insoluble in all common solvents
**Physical State:** Solid

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Decomposes in open air or in nitrogen above 400C
**Conditions to Avoid:** To avoid thermal decomposition, do not overheat.
**Materials to Avoid:** Reacts with molten alkali metals and finely divided magnesium and aluminum at temperatures above 425C.
**Hazardous Decomposition Products:** Thermal decomposition of this product ( at temperatures above 300C) will generate hydrogen fluoride, which is corrosive.
**Polymerization:** None under normal processing.

# SECTION 11: TOXICOLOGICAL INFORMATION

**Acute Toxicity and Skin Designation**

| Components (CAS#) | NIOSH – Selected LD50s& LC50s | ACGIH 2000 – Skin Absorption Designation |
|---|---|---|
| PTFE 9002-84-0 | =45 mg/m$^3$ inhalation LC50 Rat 30 min | No Data Available |
| Polyimide 150339-35-8 | No Data Available | No Data Available |

**Chronic Toxicity**

**Carcinogenic Effects:** Tetrafluoroethylene is known in the State of California to cause cancer.
**Mutagenic Effects:** No data is available on the product itself.
**Reproductive toxicity:** No data is available on the product itself.

**Carcinogenic Status**

| Components (CAS#) | IARC Carcinogens | ACGIH 1999 Carcinogens | OSHA Select Carcinogens | NTP Eight Report Known Carcinogens |
|---|---|---|---|---|
| PTFE 9002-84-0 | Not Listed | Not Listed | Not Listed | Not Listed |
| Polyimide 150339-35-8 | Not Listed | Not Listed | Not Listed | Not Listed |

**Restricted or Prohibited in Electrical Equipment (2002/95/EC)** This product complies with EU RoHS.

# SECTION 12: ECOLOGICAL INFORMATION

**Mobility:** This product is insoluble and sinks in water.

# SECTION 13: DISPOSAL CONSIDERATIONS

**Waste from residues/unused products:** Dispose of in accordance with federal, state, & local regulations. This product is not a hazardous waste under RCRA, 40CFR261 in its original form. If this product is mixed with other materials and/or physically changed, it should be evaluated to assure that the insoluble and sinks in water.

# SECTION 14: TRANSPORT INFORMATION

**U.S. Dept. of Transportation DOT – Substances from 49CFR172.101**

**DOT Classification:** Not Regulated

**Air Transport ICAO/IATA DOT Classification:** Not Regulated

# SECTION 15: REGULATORY INFORMATION

## Clean Air Act Regulations

| Components (CAS#) | Accidental Release Prevention -Flammable Substances | Accidental Release Prevention –Toxic Substances | 1990 Hazardous Air Pollutants | Section 302 EHS & TPQs | Section 313 Emission Reporting | Section 302 Hazardous Substances |
|---|---|---|---|---|---|---|
| PTFE 9002-84-0 | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |
| Polyimide 150339-35-8 | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed | Not Listed |

## Chemical Inventories Status

| Components (CAS#) | DSL Canada | TSCA United States | EINECS Europe | JENCS Japan | PICCS Philippines |
|---|---|---|---|---|---|
| PTFE 9002-84-0 | Listed | Listed | Listed | Listed | Listed |
| Polyimide 150339-35-8 | DSL | Listed on TSCA Inventory | Not Listed | Not Listed | |

## States Right to Know Lists

| Components (CAS#) | New Jersey Right to Know List | Pennsylvania Right to Know List |
|---|---|---|
| PTFE 9002-84-0 | Not Listed | Not Listed |
| Polyimide 150339-35-8 | Not Listed | Not Listed |

## TSCA & CERCLA/SARA Regulations

**SARA Classification:** Not Classified

| Components (CAS#) | TSCA – Sec. 5(a)(2) – Chemicals with SNUR |
|---|---|
| PTFE 9002-84-0 | Not Listed |
| Polyimide 150339-35-8 | Not Listed |

## California Prop 65 Regulations

| Components (CAS#) | CA Prop 65 |
|---|---|
| PTFE 9002-84-0 | Not Listed |
| Polyimide 150339-35-8 | Not Listed |

# SECTION 16: OTHER INFORMATION

**Additional Advice:** Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end use.

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**--END OF MSDS--**