

**MOLDED PTFE MATERIAL SAFETY DATA SHEET J-4200****SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** JLON J-4200  
**MANUFACTURER:** Jade Engineered Plastics  
**ADDRESS:** 121 Broad Common Rd  
Bristol RI 02809  
**EMERGENCY PHONE:** 401-253-4440 (24 hours)  
**Issue Date:** 05/25/2010  
**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	CRMG
PTFE	9002-84-0	Major	None	None	None
Glass Fiber	65997-17-3	<35%	3mg/m3	5mg/m3	None
Pigment	1309-37-1	<5%	5mg/m3	10mg/m3	None

**SECTION 3: HAZARDS IDENTIFICATION****3.1 EMERGENCY OVERVIEW**

**NFPA Rating:** Health: 1; Flammability: 0; Reactivity: 0  
**HMS Classification:** Health: 1; Flammability: 0; Reactivity: 0

**Potential Health Effects:**

**Eye Contact:** Mild Irritation: Signs/Symptoms may include redness, pain, & tearing.  
During Heating: Signs/Symptoms may include severe pain, redness & swelling and tissue destruction.

**Skin Contact:** Mechanical Skin Irritation: Signs/Symptoms may include redness, pain, & itching.  
During Heating: Thermal Burns -Signs/Symptoms may include intense pain, redness & swelling and tissue destruction.

**Inhalation:** Respiratory Tract Irritation: Signs/symptoms include cough, sneezing, nasal discharge, headache, hoarseness & nose and throat pain.  
Polymer Fume Fever: Signs/symptoms include chest pain or tightness, shortness of breath, cough, malaise, muscle aches, increased heart rate, fever, chills, sweats, nausea and headache.  
If thermal decomposition occurs, may be absorbed following inhalation and cause target organ effects.

**Ingestion:** No health effects are expected.

**Medical conditions**  
**Aggravated by exposure:** None known.

Ingredient	C.A.S. No.	Class Description	Regulation
CADMIUM COMPOUNDS	NONE	Group 1	International Agency for Research on Cancer
CADMIUM COMPOUNDS	NONE	Known human carcinogen	National Toxicology Program Carcinogens
CADMIUM COMPOUNDS	NONE	Cancer hazard	OSHA Carcinogens
GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Group 2B	International Agency for Research on Cancer
GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	NONE	Anticipated human carcinogen	National Toxicology Program Carcinogens
LEAD COMPOUNDS	NONE	Anticipated human Carcinogen	National Toxicology Program Carcinogens

**Specific Physical Form:** Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts  
**Odor, Color:** None, Red  
**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 symptoms persist, seek medical attention.  
**Skin Contact:** Wash material from skin with plenty of soap and water. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention.  
**Eye Contact:** Flush eyes with plenty of water while holding eyelids open. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Get immediate medical attention.  
**If Swallowed:** No need for first aid is anticipated.

## **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 full protective equipment and 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. Avoid skin contact with hot material. Store work clothes separately from other clothing and tobacco

products. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to polymer fume fever caused by the formation of the hazardous decomposition products mentioned in the Reactivity Data section of this MSDS. For industrial & professional use only.

**Safe Storage Conditions:** Store under normal warehouse conditions.

## **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:** Avoid skin contact with hot material. Wear appropriate gloves, such as Nomex, when handling this material to prevent thermal burns.

**Eye Protection:** Avoid eye contact; Wear safety glasses with side shields, Indirect Vented Goggles.

**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<sup>3</sup> (total dust), 5 mg/m<sup>3</sup> (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.

### **EXPOSURE GUIDELINES**

<b><u>Ingredient</u></b>	<b><u>Authority</u></b>	<b><u>Type</u></b>	<b><u>Limit</u></b>	<b><u>Additional Information</u></b>
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd, respirable	0.002 mg/m <sup>3</sup>	Table A2
CADMIUM COMPOUNDS	ACGIH	TWA, as Cd dust/particle	0.01 mg/m <sup>3</sup>	Table A2
CADMIUM DUST	OSHA	TWA, as dust	0.2 mg/m <sup>3</sup>	Table Z-2
CADMIUM DUST	OSHA	CEIL, as dust	0.6 mg/m <sup>3</sup>	Table Z-2
COPPER COMPOUNDS	ACGIH	TWA, as Cu dust or mist	1 mg/m <sup>3</sup>	
COPPER COMPOUNDS	OSHA	TWA, as dust or mist	1 mg/m <sup>3</sup>	Table Z-1A
Pigment	ACGIH	TWA, respirable	5 mg/m <sup>3</sup>	Table A4
Pigment	OSHA	TWA, as fume	10 mg/m <sup>3</sup>	Table Z-1A
MANGANESE COMPOUNDS	OSHA	CEIL, as Mn	5 mg/m <sup>3</sup>	Table Z-1A
MANGANESE, INORGANIC COMPOUNDS	ACGIH	TWA, as Mn	0.2 mg/m <sup>3</sup>	
MERCURY NON-ALKYL, VAPOR	ACGIH	TWA, as Hg	0.05 mg/m <sup>3</sup>	Skin Notation*
MERCURY NON-ALKYL, VAPOR	OSHA	TWA, as Hg	0.05 mg/m <sup>3</sup>	Skin Notation*; Table Z-1A
MERCURY, ARYL & INORGANIC COMPOUNDS	OSHA	CEIL, as Hg	0.1 mg/m <sup>3</sup> S	kin Notation*; Table Z-1A
MERCURY, INORGANIC COMPOUNDS	ACGIH	TWA, as Hg	0.025 mg/m <sup>3</sup>	Skin Notation*; Table A4
Glass Fiber		TWA, as dust	10 mg/m <sup>3</sup>	
Polytetrafluoroethylene	CMRG	TWA, as respirable dust	5 mg/m <sup>3</sup>	
Polytetrafluoroethylene	CMRG	TWA, as total dust	10 mg/m <sup>3</sup>	

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists

CMRG: Chemical Manufacturer Recommended Guideline  
OSHA: Occupational Safety and Health Administration  
AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Skived Films, Rods, Sheets, Tubes, Molded/Machined Parts  
**Color:** Red  
**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:** Stable.  
**Conditions to Avoid:** To avoid thermal decomposition, do not overheat.  
**Materials to Avoid:** Alkali and alkaline earth metals; Reactions with metals in powder form occur from 370C upwards.  
**Hazardous Decomposition Products:** Hydrogen fluoride has an ACGIH TLV of 3ppm (as fluoride) as a limit and an OSHA PEL of 3ppm of fluoride as an eight hour time weighted average and 6ppm of fluoride as a Short Term Exposure Limit. The odor threshold for HF is 0.04ppm, providing good warning properties for exposure.

### **Hazardous Decomposition or By-Products**

<b><u>Substance</u></b>	<b><u>Condition</u></b>
Carbonyl Fluoride	At elevated temperatures above 380C
Carbon Monoxide	At elevated temperatures above 380C
Carbon Dioxide	At elevated temperatures above 380C
Hydrogen Fluoride	At elevated temperatures above 380C
Perfluoroisobutylene (PFIB)	At elevated temperatures above 380C
Toxic Vapor, Gas, Particulate	At elevated temperatures above 380C

**Polymerization:** None under normal processing.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

### **Acute Toxicity and Skin Designation**

<b><u>Components (CAS#)</u></b>	<b><u>NIOSH – Selected LD50s&amp; LC50s</u></b>	<b><u>ACGIH 2000 – Skin Absorption Designation</u></b>
PTFE 9002-84-0	=45 mg/m <sup>3</sup> inhalation LC50 Rat 30 min	None
Glass Fiber 65997-17-3	None	None
Pigment 1309-37-1	None	None

## **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicological Information:** Not determined  
**Chemical Fate Information:** Not determined

## **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.  
Incinerate in an industrial or commercial facility in the presence of a combustible material.  
Combustion products will include HF. Facility must be capable of handling halogenated materials.

## **SECTION 14: TRANSPORT INFORMATION**

**ID Numbers:** 98-0213-0460-9, 98-0213-1624-9, 98-0213-2518-2

## **SECTION 15: REGULATORY INFORMATION**

### **Clean Air Act Regulations**

<b>Components (CAS#)</b>	<b>Accidental Release Prevention -Flammable Substances</b>	<b>Accidental Release Prevention –Toxic Substances</b>	<b>1990 Hazardous Air Pollutants</b>	<b>Section 302 EHS &amp; TPQs</b>	<b>Section 313 Emission Reporting</b>	<b>Section 302 Hazardous Substances</b>
PTFE 9002-84-0	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

### **Chemical Inventories Status**

<b>Components (CAS#)</b>	<b>DSL Canada</b>	<b>TSCA United States</b>	<b>EINECS Europe</b>	<b>JENCS Japan</b>	<b>PICCS Philippines</b>
PTFE 9002-84-0	Listed	Listed	Listed	Listed	Listed

### **States Right to Know Lists**

<b>Components (CAS#)</b>	<b>New Jersey Right to Know List</b>	<b>Pennsylvania Right to Know List</b>	<b>Minnesota Right to Know List</b>
PTFE 9002-84-0	Not Listed	Not Listed	Not Listed
Glass Fiber 65997-17-3	Not Listed	Not Listed	Listed

### **TSCA & CERCLA/SARA Regulations**

**SARA Classification:** Not Classified

<b>Components (CAS#)</b>	<b>TSCA – Sec. 5(a)(2) – Chemicals with SNUR</b>
PTFE 9002-84-0	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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