

Grafix
 (216)581-9050 or (800)447-2349
 19499 Miles Rd Cleveland OH 44128
Material Safety Data Sheet

MATERIAL SAFETY DATA SHEET

Date Prepared: 2/13/02

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: JPD-3E, JPD-4E

MATHE LASER

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	PERCENT	EXPOSURE LIMITS (TWA)
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None present using the definitions of OSHA Hazard Communications regulations.

(This product is not considered to be hazardous under any definitions of the OSHA Hazard Communication regulations. This MSDS is provided only by the request of our customers to indicate the non-hazardous nature of the product **Grafix** cannot project all applications for this product, hence, some of the uses of this product may generate hazardous situations not anticipated **Grafix**

*Indicates Hazardous Chemicals Subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40CFR Part 372.

SECTION III - PHYSICAL DATA

PROPERTY:

Boiling Point (F)	Not Applicable
Vapor Pressure (mm Hg)	<< 0.1 mg
Solubility in Water	Negligible
Specific Gravity (H₂O = 1)	>1.0 gm/cc
Evaporation Rate (BuAcet = 1)	<< 1
Appearance and Odor:	Slightly opaque polyester film product with no noticeable odor.
Melting Point (C)	160 C

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PRODUCT NAME: JPD-3E, JPD-4E

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (F): Estimated to be > 500 F

Lower Explosive Limit: Not Applicable
Upper Explosive Limit: Not Applicable

Extinguishing Media: CO₂, dry chemical, "alcohol" foam. Water spray may be useful in controlling fire by keeping adjacent rolls of film cool.

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus with full face mask and full protective clothing/equipment. Contain runoff water as it may be considered a hazardous material.

Unusual Fire and Explosion Hazards: The smoke coming from combustion of this material is of unknown composition. It is likely to contain carbon monoxide and other hazardous materials in unknown quantities presenting an unknown level of risk..

NFPA Codes: **Health = 0** **Flammability = 0** **Reactivity = 0**

SECTION V - HEALTH HAZARD DATA

Primary Routes of Exposure:
Inhalation: Not Likely **Skin:** Yes **Ingestion:** Not Likely

Health Hazards - Acute: This film product may cause dermal abrasion and/or cuts upon contact. Paper cuts may be common when contacting cut edge of film product. No specific acute health effects have been seen or are expected with contact of this material.

Health Hazards - Chronic: This film product is not known to cause any delayed or chronic health effects.

Carcinogenicity: **OSHA:** No **IARC:** No **NTP:** No

Signs and Symptoms of Overexposure: Mechanical skin injury such as abrasions or cuts.

Medical Conditions Aggravated by Exposure: None are known or expected.

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PRODUCT NAME: JPD-3E, JPD-4E

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

INHALATION:

None specifically recommended for this film product.

SKIN CONTACT:

Treatment for skin irritation from abrasions or cuts should be done using good first-aid practices. No additional specific first-aid procedures are recommended.

INGESTION:

None are specifically known or recommended

SECTION VII - REACTIVITY DATA

Stability: Stable under normal conditions of storage and handling.**Hazardous Polymerization:** Will not occur.**Hazardous Decomposition Products:** None are specifically known related to typical handling of product at room temperature. Under conditions of combustion, smoke is of unknown composition. Under conditions of temperature extremes, melting may lead to some polymer decomposition.**Conditions to Avoid:** Avoid extremes in high temperature that may cause melting of product. Material is otherwise very stable in typical situation and typical environments.**Incompatibility:** Avoid contact with strong acids or bases, and very reactive chemicals.

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PRODUCT NAME: JPD-3E, JPD-4E

SECTION VIII - SAFE HANDLING AND USE INFORMATION

Respiratory Protection:

None should be needed in handling the film product. If significant changes are involved in the use of this material, an evaluation should be conducted by facility health and safety personnel to see if respiratory protection is needed.

Ventilation:

None is specifically recommended beyond that necessary for general comfort and odor removal.

Skin Protection:

Gloves may be needed to protect against abrasion and/or cuts. Use gloves that incorporate skin abrasion and/or cut prevention into the design of the glove.

Eye Protection:

Safety glasses are recommended for all industrial operations to prevent mechanical contact with the eye.

Other Protective Equipment:

None is specifically recommended..

SECTION IX - SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled:

Spilled film material should be cleaned up by sweeping or manual handling of roll material. No specific protective equipment is recommended for handling during a spill situation beyond that required by the facility safety program for handling non-hazardous waste materials.

CERCLA Reportable Quantity:

N/A

Waste Disposal Method:

Material is considered a non-hazardous waste under current laws and regulations. Check with local agencies to determine if other laws and regulations are in place that will change this designation. Material may be disposed of by landfilling in a sanitary landfill.

SARA Title III:

See Section II.

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PRODUCT NAME: JPD-3E, JPD-4E

SECTION X - STORAGE DATA AND SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storage:

Avoid extremes in high temperature that may cause melting of product.

Other Precautions:

None are specifically known.

DISCLAIMER OF LIABILITY:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of this film product is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the film product to which the information refers. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.

Prepared by: Mark R. Gomez

Title: Safety & Environmental Coordinator

Signed: _____

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SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: JPC-4

CLEAR LASER

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	PERCENT	EXPOSURE LIMITS (TWA)
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None present using the definitions of OSHA Hazard Communications regulations.

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SECTION III - PHYSICAL DATA

PROPERTY:

Boiling Point (F)	Not Applicable
Vapor Pressure (mm Hg)	<< 0.1 mg
Solubility in Water	Negligible
Specific Gravity (H₂O = 1)	>1.0 gm/cc
Evaporation Rate (BuAcet = 1)	<< 1
Appearance and Odor:	Slightly opaque polyester film product with no noticeable odor.
Melting Point (C)	160 C

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PRODUCT NAME: JPC-4

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (F): Estimated to be > 500 F

Lower Explosive Limit: Not Applicable
Upper Explosive Limit: Not Applicable

Extinguishing Media: CO₂, dry chemical, "alcohol" foam. Water spray may be useful in controlling fire by keeping adjacent rolls of film cool.

Special Fire Fighting Procedures: Fire fighters should wear self-contained breathing apparatus with full-face mask and full protective clothing/equipment. Contain runoff water as it may be considered a hazardous material.

Unusual Fire and Explosion Hazards: The smoke coming from combustion of this material is of unknown composition. It is likely to contain carbon monoxide and other hazardous materials in unknown quantities presenting an unknown level of risk.

NFPA Codes: **Health = 0** **Flammability = 0** **Reactivity = 0**

SECTION V - HEALTH HAZARD DATA

Primary Routes of Exposure:
Inhalation: Not Likely **Skin:** Yes **Ingestion:** Not Likely

Health Hazards - Acute: This film product may cause dermal abrasion and/or cuts upon contact. Paper cuts may be common when contacting cut edge of film product. No specific acute health effects have been seen or are expected with contact of this material.

Health Hazards - Chronic: This film product is not known to cause any delayed or chronic health effects.

Carcinogenicity: **OSHA: No** **IARC: No** **NTP: No**

Signs and Symptoms of Overexposure: Mechanical skin injury such as abrasions or cuts.

Medical Conditions Aggravated by Exposure: None are known or expected.

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PRODUCT NAME: JPC-4

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

INHALATION:

None specifically recommended for this film product.

SKIN CONTACT:

Treatment for skin irritation from abrasions or cuts should be done using good first-aid practices. No additional specific first-aid procedures are recommended.

INGESTION:

None are specifically known or recommended

SECTION VII - REACTIVITY DATA

Stability: Stable under normal conditions of storage and handling.**Hazardous Polymerization:** Will not occur.**Hazardous Decomposition Products:** None are specifically known related to typical handling of product at room temperature. Under conditions of combustion, smoke is of unknown composition. Under conditions of temperature extremes, melting may lead to some polymer decomposition.**Conditions to Avoid:** Avoid extremes in high temperature that may cause melting of product. Material is otherwise very stable in typical situation and typical environments.**Incompatibility:** Avoid contact with strong acids or bases, and very reactive chemicals.

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PRODUCT NAME: JPC-4

SECTION VIII - SAFE HANDLING AND USE INFORMATION

Respiratory Protection:

None should be needed in handling the film product. If significant changes are involved in the use of this material, an evaluation should be conducted by facility health and safety personnel to see if respiratory protection is needed.

Ventilation:

None is specifically recommended beyond that necessary for general comfort and odor removal.

Skin Protection:

Gloves may be needed to protect against abrasion and/or cuts. Use gloves that incorporate skin abrasion and/or cut prevention into the design of the glove.

Eye Protection:

Safety glasses are recommended for all industrial operations to prevent mechanical contact with the eye.

Other Protective Equipment:

None is specifically recommended.

SECTION IX - SPILL OR LEAK PROCEDURE

Steps to be taken in case material is released or spilled:

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CERCLA Reportable Quantity:

N/A

Waste Disposal Method:

Material is considered a non-hazardous waste under current laws and regulations. Check with local agencies to determine if other laws and regulations are in place that will change this designation. Material may be disposed of by landfilling in a sanitary landfill.

SARA Title III:

See Section II.

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PRODUCT NAME: JPC-4

SECTION X - STORAGE DATA AND SPECIAL PRECAUTIONS

Precautions to be taken in Handling and Storage:

Avoid extremes in high temperature that may cause melting of product.

Other Precautions:None are specifically known.

DISCLAIMER OF LIABILITY:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Final determination of suitability of this film product is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the film product to which the information refers. It is the responsibility of the user to comply with all applicable Federal, State and Local laws and regulations.

Prepared by: Mark R. Gomez

Title: Safety & Environmental Coordinator

Signed: _____

Date: _____