



## MATERIAL SAFETY DATA SHEET

DATE PREPARED: March 12, 2004

Dynatex International urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material of the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request customers to notify their employees, customers, and other users of the product of this information.

### 1. PRODUCT IDENTITY AND COMPANY CONTACT INFORMATION

#### Material Identity

Product Name: WAFER GRIP ADHESIVE FILM (WGR, WG1, WG2)

General or Generic ID: EVA (Ethylene/Vinylacetate Copolymer)

#### Company

Dynatex International  
5577 Skylane Blvd.  
Santa Rosa, CA. 95403  
707-542-4269

### 2. CHEMICAL COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredients:</u>	<u>CAS Number</u>	<u>% (by weight)</u>
Proprietary Adhesive	N/A	N/A
Automate Blue 8	Mixture*	< 0.3%

\* See additional information on ingredients listed in the sections below.

### 3. HAZARDS IDENTIFICATION

#### Potential Health Effects

##### Eye:

May cause mild eye irritation.

##### Skin:

Solid product not expected to cause irritation. Molten material may cause thermal burns, dis-coloration, and may adhere to skin.

##### Ingestion:

Swallowing small amounts of this material during normal handling is not likely, nor is likely to cause harmful effects. Swallowing large amounts may be harmful.

##### Inhalation:

May cause irritation, discomfort or difficulty in breathing.

Symptoms of Exposure:

No Data

Target Organ Effects:

No Data

Developmental Information:

No Data

Cancer Information:

Contains no materials known to the State of California (USA) to cause cancer and to cause adverse reproductive effects.

Other Health Effects:

No Data

Primary Route(s) of Exposure:

Inhalation, skin contact.

#### 4. FIRST AID MEASURES

Eyes:

For contact with eyes, seek medical help immediately.

Skin:

For contact with molten material, immerse affected area immediately in clean, cold water. Leave adhesive in place and contact your physician.

Ingestion:

Seek medical help immediately.

Inhalation:

Exit polluted area as quickly as possible and proceed to a location where fresh air is readily available.

#### 5. FIRE-FIGHTING MEASURES

Flash Point:

395°F (Cleveland Open Cup)

Explosive Limit:

N/A

Autoignition Temperature:

N/A

Hazardous Products of Combustion:

Combustion may form carbon dioxide and carbon monoxide.

Fire and Explosion Hazards:

No special fire hazards are known to be associated with this product.

Extinguishing Media:

Dry chemical, foam, carbon dioxide.

**Fire Fighting Instructions:**

Avoid using water on molten materials as this may cause splattering and spread of fire. Self-contained breathing apparatus and protective cloth should be worn in fighting fire involving chemicals.

**6. ACCIDENTAL RELEASE MEASURES****Spill Procedure:**

Sweep up solid material. For molten material spills allow to solidify, then scrape, sweep up and place in a proper disposal container.

**7. HANDLING AND STORAGE****Handling:**

No special requirements for solid material. For molten material take precautions against thermal burns.

**Storage:**

Store in a cool, dry place.

**8. EXPOSURE CONTROLS AND PERSONAL PROTECTION****Eye Protection:**

Chemical safety glasses should be worn.

**Skin Protection:**

None should be needed for solid material. For molten material be sure to wear appropriate OSHA approved safety equipment to prevent against thermal burns.

**Respiratory Protection:**

None should be needed, other than adequate ventilation.

**Engineering Controls:**

None for solid material. For molten material, good general room ventilation with at least twelve air changes per hour or a good exhaust ventilation system is suggested.

**Exposure Guidelines:**

Automate Blue 8 contains the following components:

C.I. Solvent Blue –	No Data	
Xylene (32.8%) –	TLV (ACGIH): 100 PPM	STEL (ACGIH): 150 PPM
	PEL (OSHA): 100 PPM	STEL (OSHA): 150 PPM
Ethyl Benzene (8.2%) –	TLV (ACGIH): 100 PPM	STEL (ACGIH): 150 PPM
	PEL (OSHA): 100 PPM	STEL (OSHA): 150 PPM

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point: >350 °F

Softening Point: 208 °F

Vapor Pressure: No Data

Vapor Density: No Data

Specific Gravity: ~ 1.00

Percent Volatiles (by volume): No Data

Evaporation Rate: Negligible

Appearance: Blue

State: Solid

Odor: N/A

PH: N/A

Solubility in Water: Negligible

**10. STABILITY AND REACTIVITY**

Hazardous Polymerization:  
Product will not undergo hazardous polymerization.

Hazardous Decomposition:  
Combustion may produce carbon dioxide and carbon monoxide.

Chemical Stability:  
Very stable.

Chemical Incompatibility:  
Avoid oxidizing agents.

**11. TOXICOLOGICAL INFORMATION**

C.I. Solvent Blue 98:  
Oral LD50 (Rat) > 5000mg/kg

Xylene:  
Oral LD50 (Rat): 4300 mg/kg  
Inhalation LC50 (Rat): 5000 PPM/4-hours

Ethyl Benzene:  
Oral LD50 (Rat): 3500 mg/kg  
Dermal LD50 (Rabbit): 17800 mg/kg

Mutagenicity:  
For C.I. Solvent Blue: Positive results were obtained in the AMES test.

**12. ECOLOGICAL INFORMATION**

No Data

**13. DISPOSAL CONSIDERATIONS**

Waste Management Information:  
Dispose of solid waste in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

D.O.T. PROPER SHIPPING NAME: None	HAZARDOUS SUBSTANCE (CERCLA): No
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D.O.T. HAZARD CLASSIFICATION:	
PRIMARY: None	SECONDARY: None

D.O.T. LABELS REQUIRED: None	D.O.T. PLACARDS REQUIRED: None
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BILL OF LADING DESCRIPTION: None-hazardous, Wafer Grip Adhesive	UN/NA CODE: N/A
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## 15. REGULATORY INFORMATION

This product contains no materials in quantities considered to be hazardous under Occupational Safety and Health Administrations (OSHA) final standard "Hazardous communications 29CFR1910.1200".

OSHA (USA) hazardous chemicals(s) according to 29CFR1910.1200: none

Materials known to the state of California (USA) to cause cancer and to cause adverse reproductive effects: none

Chemicals subject to the reporting requirement of section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40CFR Part 372 (USA): Xylene, Ethyl Benzene

CERCLA: Xylene – 100 lbs.; Ethyl Benzene – R.Q. 1000 lbs.

SARA (USA) Section 311 and 312 hazard classifications: N/A

All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory Requirements.

## 16. OTHER INFORMATION

WGR WaferGrip on release paper (WGR-XXXXXXXX-RP), WGR-XXXXXXXX-RP3 (three mil thick WaferGrip) WG1 WaferGrip single sided on mylar, (WG1-XXXXXXXX-XX), WG2 WaferGrip double sided on mylar (WG2-XXXXXXXX-XX)

### WAFER GRIP ADHESIVE FILM

CAUTION: Do not overheat WG Adhesive.  
Recommended application temperature  
is 210-225° F.

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**EMERGENCY TELEPHONE NUMBER: (707) 542-4227**