



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Jet-melt™ Adhesive EC 3764  
**MANUFACTURER:** 3M  
**DIVISION:** Engineered Adhesives

**ADDRESS:** 3M Center  
 St. Paul, MN 55144-1000

**EMERGENCY PHONE:** 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 03/15/2002  
**Supersedes Date:** Initial Issue

**Document Group:** 17-9116-9

**Product Use:**

Specific Use: hot-melt adhesive

### SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
ETHYLENE-VINYL ACETATE POLYMER	24937-78-8	30 - 60
HYDROCARBON RESIN	68132-00-3	15 - 40
POLYETHYLENE WAX	9006-26-2	7 - 13
PARAFFIN WAX	8002-74-2	1 - 5

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Pellets

**Odor, Color, Grade:** white, odorless.

**General Physical Form:** Solid

**Immediate health, physical, and environmental hazards:** May cause thermal burns. NOTE: Laboratory studies were conducted to characterize volatiles released during Jet-melt use. Air samples were collected from the head space of the adhesive and from the simulated breathing zone of a Polygun user during application. Although acetic acid and acrolein were measured in the

product's head space, the chemicals were not detected in the breathing zone air samples (i.e., chemical concentrations were below the lower limits of analytical detection). These results indicate a very low inhalation hazard when normal industrial hygiene practices are used. However, customer correspondence indicate that eye and upper respiratory system irritation may occur. For this reason, the product should be used in a well ventilated area.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Vapors from heated material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

**Skin Contact:**

Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

**Inhalation:**

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

### 3.3 POTENTIAL ENVIRONMENTAL EFFECTS

Intended use, foreseeable potential misuses, and proper disposal of this preparation are unlikely to result in the release of preparation substances to air, water, or soil.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

**Eye Contact:** Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MATERIAL. Get immediate medical attention.

**Skin Contact:** Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MATERIAL. Cover affected area with a clean dressing. Get immediate medical attention. Wash contaminated clothing and shoes before reuse.

**Inhalation:** Remove person to fresh air. If signs/symptoms develop, get medical attention.

**If Swallowed:** Do not induce vomiting. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

**Autoignition temperature**  
**Flash Point**

*No Data Available*  
500 °F [*Test Method:* Cleveland Open Cup] [*Details:*  
CONDITIONS: ASTM D-92-72]

**Flammable Limits - LEL**  
**Flammable Limits - UEL**

*Not Applicable*  
*Not Applicable*

### 5.2 EXTINGUISHING MEDIA

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**Unusual Fire and Explosion Hazards:** No unusual fire or explosion hazards are anticipated.

**Note:** See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Accidental Release Measures:** Reclaim undamaged product.

**In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.**

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Avoid breathing of vapors.

### 7.2 STORAGE

Store away from heat.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 ENGINEERING CONTROLS

Use in a well-ventilated area.

## 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

The following eye protection(s) are recommended: Indirect Vented Goggles.

### 8.2.2 Skin Protection

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

### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

## 8.3 EXPOSURE GUIDELINES

<u>Ingredient</u>	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	<u>Additional Information</u>
PARAFFIN WAX	ACGIH	TWA - as fume	2 mg/m <sup>3</sup>	
PARAFFIN WAX	OSHA	TWA - as fume	2 mg/m <sup>3</sup>	Table Z-1A

### 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

<b>Specific Physical Form:</b>	Pellets
<b>Odor, Color, Grade:</b>	white, odorless.
<b>General Physical Form:</b>	Solid
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Flash Point</b>	500 °F [Test Method: Cleveland Open Cup] [Details: CONDITIONS: ASTM D-92-72]
<b>Flammable Limits - LEL</b>	<i>Not Applicable</i>
<b>Flammable Limits - UEL</b>	<i>Not Applicable</i>
<b>Boiling point</b>	<i>Not Applicable</i>
<b>Density</b>	0.95 g/ml
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	Nil

Vapor Pressure	Not Applicable
Vapor Pressure	Nil
Specific Gravity	0.95 [Ref Std: WATER=1]
pH	Not Applicable
Melting point	90 °C
Solubility In Water	No Data Available
Solubility in Water	Nil
Evaporation rate	Not Applicable
Volatile Organic Compounds	0 g/l [Details: CONDITIONS: Calculated per SCAQMD Rule 443.1]
Percent volatile	0 % weight
VOC Less H2O & Exempt Solvents	0 g/l [Details: CONDITIONS: Calculated per SCAQMD rule 443.1]
Viscosity	4,000 - 8,000 centipoise [@ 190 °C]

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** None known

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Toxic Vapor, Gas, Particulate	During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL INFORMATION

Not Determined

### CHEMICAL FATE INFORMATION

Not Determined

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14: TRANSPORT INFORMATION

**ID Number(s):**  
H0-0020-5570-7

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

**311/312 Hazard Categories:**

Fire Hazard - No    Pressure Hazard - No    Reactivity Hazard - No    Immediate Hazard - Yes    Delayed Hazard - No

### STATE REGULATIONS

Contact 3M for more information.

### INVENTORIES

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact 3M for more information.

**Additional Information:** 3M I.D. Number 62-3762-9231-4 for International Shipment Only.

### INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

### NFPA Hazard Classification

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Agency Hazard Codes are designed for use by firefighters, sheriffs, or other emergency response teams who are concerned with the hazards of burning or exploding materials. These NFPA codes are not intended to address the hazards of this product other than in a fire situation.

No revision information is available.

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