

# **Material Safety Data Sheet**

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Jet-melt (TM) Adhesive 3738-AE / 3738-PG / 3738-TC / 3738-TC-Q / 3738-Q / 3738-B MANUFACTURER: 3M DIVISION: Engineered Adhesives

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

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**Issue Date:** 11/15/2002 **Supercedes Date:** 05/24/2001

**Document Group:** 10-0388-8

#### **Product Use:**

Specific Use:

hot melt adhesive

# **SECTION 2: INGREDIENTS**

Ingredient ETHYLENE-VINYL ACETATE POLYMER HYDROCARBON RESIN HYDROCARBON RESIN PARAFFIN WAX

24937-78-8 68478-07-9 65997-06-0 8002-74-2

C.A.S. No.

<u>% by Wt</u> 50 - 60 20 - 30 10 - 20 1 - 5

# **SECTION 3: HAZARDS IDENTIFICATION**

## **3.1 EMERGENCY OVERVIEW**

Specific Physical Form: Waxy Solid
Odor, Color, Grade: medium tan, solid adhesive in rods, odorless. (Molten state: resinous odor.)
General Physical Form: Solid
Immediate health, physical, and environmental hazards: May cause thermal burns.

## **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:

Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### **Ingestion:**

Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

# **SECTION 4: FIRST AID MEASURES**

## 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

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

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

If Swallowed: No need for first aid is anticipated.

# **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point

Flammable Limits - LEL Flammable Limits - UEL 803 °F 550 °F [*Test Method:* Cleveland Open Cup] [*Details:* CONDITIONS: ASTM D-92-72] *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: Not applicable.

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 skin contact with hot material. For industrial or professional use only.

### 7.2 STORAGE

Store under normal warehouse conditions.

# 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

Avoid eye contact.

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

Not an expected route of exposure.

### **8.3 EXPOSURE GUIDELINES**

TWA - as	2	
	2 mg/m3	
TWA - as	2 mg/m3	Table Z-1A
	fume	fume TWA - as 2 mg/m3

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**

Specific Physical Form:	Waxy Solid
Odor, Color, Grade:	medium tan, solid adhesive in rods, odorless. (Molten state: resinous
	odor.)
General Physical Form:	Solid
Autoignition temperature	803 °F
Flash Point	550 °F [Test Method: Cleveland Open Cup] [Details:
	CONDITIONS: ASTM D-92-72]
Flammable Limits - LEL	Not Applicable
Flammable Limits - UEL	Not Applicable
Boiling point	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	0.95 [ <i>Ref Std:</i> WATER=1]
pH	No Data Available
Melting point	No Data Available

Solubility in Water Evaporation rate Hazardous Air Pollutants Volatile Organic Compounds Percent volatile VOC Less H2O & Exempt Solvents Viscosity Nil Not Applicable 0 % weight 00 lb/gal 0 % weight 00 lb/gal Not Applicable

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: Heat

Hazardous Polymerization: Hazardous polymerization will not occur.

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

**Substance** 

**Condition** 

Carbon monoxide Carbon dioxide During Combustion During Combustion

# SECTION 11: TOXICOLOGICAL INFORMATION

#### **Product-Based Toxicology Information:**

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.

# **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):

62-3738-7230-8, 62-3738-7231-6, 62-3738-7232-4, 62-3738-7233-2, 62-3738-7234-0, 62-3738-9030-0, 62-3738-9105-0, 62-3738-9130-8, 62-3738-9132-4, 62-3738-9134-0, 62-3738-9135-7, 62-3738-9136-5, 62-3738-9230-6, 62-3738-9231-4, 62-3738-9232-2, 62-3738-9305-6, 62-3738-9330-4, 62-3738-9335-3, 62-3738-9336-1, 62-3738-9337-9, 62-3738-9338-7, 62-3738-9339-5, 62-3738-9430-2, 62-3738-9505-1, 62-3738-9530-9, 62-3738-9531-7, 62-3738-9536-6, 62-3738-9630-7, 62-3738-9730-5, 62-3738-9805-5, 62-3738-9830-3, 62-3738-9831-1, 62-3738-9835-2, 62-3738-9836-0, 62-3738-9930-1, 62-3738-9931-9, 62-3738-9935-0, 62-3738-9936-8

Not regulated per U.S. DOT, IATA or IMO.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and <u>not</u> the packaging, labeling, or marking requirements. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

# **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.

## CHEMICAL 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.

# 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 Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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