



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M™ Shipping-Mate™ Labeling Adhesive  
**MANUFACTURER:** 3M  
**DIVISION:** Industrial Adhesives and Tapes Division

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

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

**Issue Date:** 08/17/10  
**Supercedes Date:** 02/16/10

**Document Group:** 16-6312-9

**Product Use:**

Specific Use: Aerosol labeling adhesive  
 Intended Use: Industrial use

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                                   | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|---|-------------------|----------------|
| PENTANE   | 109-66-0          | 30 - 50        |
| NON-HAZARDOUS COMPONENTS -NJTS Reg. # 04499600-6502 | Trade Secret      | 10 - 30        |
| PROPANE   | 74-98-6           | 10 - 30        |
| 1,1-DIFLUOROETHANE                                  | 75-37-6           | 5 - 10         |
| ACETONE   | 67-64-1           | 5 - 10         |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES            | 64742-47-8        | 3 - 7          |
| ISOPENTANE  | 78-78-4           | < 3            |
| CYCLOPENTANE  | 287-92-3          | < 3            |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Aerosol  
**Odor, Color, Grade:** White to tan, mild solvent odor  
**General Physical Form:** Gas

**Immediate health, physical, and environmental hazards:** Aerosol container contains flammable gas under pressure. Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure. May cause target organ effects.

### 3.2 POTENTIAL HEALTH EFFECTS

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

**Inhalation:**

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

Intentional concentration and inhalation may be harmful or fatal.

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

May be absorbed following inhalation and cause target organ effects.

**Ingestion:**

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

May be absorbed following ingestion and cause target organ effects.

**Target Organ Effects:**

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

## 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:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**Inhalation:** Remove person to fresh air. Get immediate medical attention.

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

#### 4.2 NOTE TO PHYSICIANS

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

### SECTION 5: FIRE FIGHTING MEASURES

#### 5.1 FLAMMABLE PROPERTIES

|  |  |
|--|--|
| <b>Autoignition temperature</b>          | <i>No Data Available</i>                   |
| <b>Flash Point</b>                       | <=100 °F [ <i>Test Method:</i> Closed Cup] |
| <b>Flammable Limits - LEL</b>            | 1.4 % volume                               |
| <b>Flammable Limits - UEL</b>            | 12.8 % volume                              |
| <b>OSHA Flammability Classification:</b> | Class IA Flammable Liquid                  |

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

#### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Exposure to extreme heat can give rise to thermal decomposition. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains flammable material under pressure.

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

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### Personal precautions

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available.

#### Environmental procedures

Place in a closed container approved for transportation by appropriate authorities.

#### Clean-up methods

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.

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

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Do not pierce or burn container, even after use. No smoking while handling this material. Do not spray near flames or sources of ignition. Avoid breathing of vapors, mists or spray. Avoid skin contact. Aerosol container contains flammable gas under pressure. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children.

### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Use in a well-ventilated area. If exhaust ventilation is not available, use appropriate respiratory protection. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.

The following eye protection(s) are recommended: Safety Glasses with side shields

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#### 8.2.2 Skin Protection

Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Gloves made from the following material(s) are recommended: Butyl Rubber

Polyethylene/Ethylene Vinyl Alcohol

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#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges

. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

Organic vapor respirators may have short service life

#### 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> |
|--------------------|------------------|-------------|--------------|-------------------------------|
| 1,1-DIFLUOROETHANE | AIHA             | TWA         | 2700 mg/m3   |                               |
| 1,1-DIFLUOROETHANE | CMRG             | TWA         | 1000 ppm     |                               |
| ACETONE            | ACGIH            | TWA         | 500 ppm      |                               |
| ACETONE            | ACGIH            | STEL        | 750 ppm      |                               |
| ACETONE            | OSHA             | TWA         | 2400 mg/m3   |                               |
| CYCLOPENTANE       | ACGIH            | TWA         | 600 ppm      |                               |
| PENTANE            | ACGIH            | TWA         | 600 ppm      |                               |
| PENTANE            | OSHA             | TWA         | 2950 mg/m3   |                               |
| PROPANE            | OSHA             | TWA         | 1800 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

|   |  |
|---|--|
| <b>Specific Physical Form:</b>            | Aerosol  |
| <b>Odor, Color, Grade:</b>                | White to tan, mild solvent odor                          |
| <b>General Physical Form:</b>             | Gas  |
| <b>Autoignition temperature</b>           | <i>No Data Available</i>                                 |
| <b>Flash Point</b>                        | <=100 °F [ <i>Test Method:</i> Closed Cup]               |
| <b>Flammable Limits - LEL</b>             | 1.4 % volume   |
| <b>Flammable Limits - UEL</b>             | 12.8 % volume  |
| <b>Boiling point</b>                      | <i>Not Applicable</i>                                    |
| <b>Density</b>                            | 0.712 g/ml   |
| <b>Vapor Density</b>                      | >=1 [ <i>Ref Std:</i> AIR=1]                             |
| <b>Specific Gravity</b>                   | 0.712 [ <i>Ref Std:</i> WATER=1]                         |
| <b>pH</b>                                 | <i>Not Applicable</i>                                    |
| <b>Melting point</b>                      | <i>Not Applicable</i>                                    |
| <b>Solubility in Water</b>                | Nil  |
| <b>Evaporation rate</b>                   | 1.90 [ <i>Ref Std:</i> ETHER=1]                          |
| <b>Hazardous Air Pollutants</b>           | 0 % weight [ <i>Test Method:</i> Calculated]             |
| <b>Volatile Organic Compounds</b>         | 65 % [ <i>Test Method:</i> calculated SCAQMD rule 443.1] |
| <b>Kow - Oct/Water partition coef</b>     | <i>No Data Available</i>                                 |
| <b>Percent volatile</b>                   | 81 % weight  |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | 65 %   |
| <b>Viscosity</b>                          | <i>Not Applicable</i>                                    |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:**

**10.1 Conditions to avoid**

Heat  
Sparks and/or flames

**10.2 Materials to avoid**  
Strong oxidizing agents

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

### Hazardous Decomposition or By-Products

**Substance**

Hydrocarbons  
Carbon monoxide  
Carbon dioxide

**Condition**

During Combustion  
During Combustion  
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:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

The facility should be equipped to handle gaseous waste.

Facility must be capable of handling aerosol cans. Combustion products will include HF. Facility must be capable of handling halogenated materials.

Dispose of empty product containers in a sanitary landfill.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable)

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

## SECTION 14: TRANSPORT INFORMATION

**ID Number(s):**

62-4945-4930-6, 62-4945-4935-5

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: REGULATORY INFORMATION

### US FEDERAL REGULATIONS

Contact 3M for more information.

**311/312 Hazard Categories:**

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

This material contains a chemical which requires export notification under TSCA Section 12[b]:

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Regulation</u>   | <u>Status</u> |
|--|------------------|---|---------------|
| PENTANE                                    | 109-66-0         | Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals | Applicable    |

### STATE REGULATIONS

Contact 3M for more information.

\* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### CHEMICAL INVENTORIES

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.

WHMIS: Hazardous

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: 2 Flammability: 4 Reactivity: 0 Special Hazards: None  
Aerosol Storage Code: 3

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.

### Revision Changes:

Section 8: Eye/face protection information was modified.  
Section 8: Skin protection - recommended gloves information was modified.  
Section 8: Respiratory protection - recommended respirators information was modified.  
Section 14: Transportation legal text was modified.  
Section 2: Ingredient table was modified.  
Section 8: Exposure guidelines ingredient information was modified.  
Section 10: Materials to avoid physical property was modified.  
Section 10: Conditions to avoid physical property was modified.  
Section 6: Environmental procedures heading was added.  
Section 6: Personal precautions heading was added.  
Section 6: Clean-up methods heading was added.  
Section 6: Release measures heading was deleted.  
Section 3: Carcinogenicity table was deleted.  
Section 3: Carcinogenicity heading was deleted.  
Section 15: California proposition 65 ingredient information was deleted.  
Section 15: California proposition 65 heading was deleted.  
Section 15: California proposition 65 cancer warning was deleted.

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