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# 3M MATERIAL SAFETY DATA SHEET 3M(TM) Super 77 Classic Spray Adhesive 12/01/2004

## **Material Safety Data Sheet**

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# SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(TM) Super 77 Classic Spray Adhesive **MANUFACTURER:** 3M

# **DIVISION:** Industrial Adhesives and Tapes

ADDRESS: 3M Center

St. Paul, MN 55144-1000 EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 12/01/2004

Supercedes Date: 07/13/2004

**Document Group:** 11-4257-9 **Product Use:** 

Specific Use: AEROSOL ADHESIVE

# **SECTION 2: INGREDIENTS**

Ingredient C.A.S. No. % by Wt

Nonvolatile components - N.J. Trade Secret Registry No. 04499600-5776P Trade Secret 20 - 30 CYCLOHEXANE 110-82-7 10 - 20 2-METHYLPENTANE 107-83-5 10 - 20 ISOBUTANE 75-28-5 7 - 13 PROPANE 74-98-6 7 - 13 DIMETHYL ETHER 115-10-6 7 - 13 3-METHYLPENTANE 96-14-0 3 - 7 2,3-DIMETHYLBUTANE 79-29-8 1 - 5 2,2-DIMETHYLBUTANE 75-83-2 1 - 5 HEXANE 110-54-3 < 1

# **SECTION 3: HAZARDS IDENTIFICATION**

**3.1 EMERGENCY OVERVIEW** 

Odor, Color, Grade: light cream colored, sweet/fruity odor.

## General Physical Form: Gas

Immediate health, physical, and environmental hazards: Flammable liquefied gas. May cause target organ effects.

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## **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:

Prolonged or repeated exposure may cause:

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

May be absorbed through skin and cause target organ effects.

#### Inhalation:

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

Intentional concentration and inhalation may be harmful or fatal.

May be absorbed following inhalation and cause target organ effects.

#### Ingestion:

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

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.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy. Kidney Effects: Signs/symptoms may include reduced or absent urine production, increased serum creatinine, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN).

## **3.3 POTENTIAL ENVIRONMENTAL EFFECTS**

HALOGEN ANALYSIS: The dry ingredients of 3M Super 77 Spray Adhesive were subjected to combustion in a Parr oxygen bomb. The decomposition products were analyzed by Ion Chromotographic analysis for halogen and sulfur content. Chlorine 0.05%; Fluorine <0.001%, Bromine <0.001%; Sulfur <0.035%.



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# **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. 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 No Data Available

Flash Point -42.00 °F [Test Method: Tagliabue Closed Cup]

Flammable Limits - LEL Approximately 1.5 % volume

Flammable Limits - UEL Approximately 8.6 % volume

OSHA Flammability Classification: 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: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: Flammable liquefied gas. Aerosol container contains gas under pressure. 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

Accidental Release Measures: 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. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only nonsparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. Working from around the edges of the spill inward, cover with bentonie, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Collect the resulting residue containing solution. Place in an approved metal container. Seal the container. Dispose of collected material as soon as possible.

# 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. 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 with functioning spray booth or local exhaust. 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. Do not use in a confined area or areas with little or no air movement. If exhaust ventilation is not adequate, use appropriate respiratory protection. Provide ventilation adequate to control vapor concentrations below recommended exposure limits and/or control spray or mist.

## 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.

#### 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: Nitrile Rubber.

#### 8.2.3 Respiratory Protection

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.

#### 8.2.4 Prevention of Swallowing

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



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## **8.3 EXPOSURE GUIDELINES**

#### Ingredient Authority Type Limit Additional Information

CYCLOHEXANE ACGIH TWA 100 ppm CYCLOHEXANE OSHA TWA 300 ppm Table Z-1 DIMETHYL ETHER AIHA TWA 1000 ppm DIMETHYL ETHER CMRG TWA 1000 ppm HEXANE ACGIH TWA 50 ppm Skin Notation\* HEXANE OSHA TWA, Vacated 50 ppm Table Z-1A HEXANE OSHA TWA 500 ppm Table Z-1A HEXANE (ISOMERS OTHER THAN NHEXANE) ACGIH TWA 500 ppm HEXANE (ISOMERS OTHER THAN NHEXANE) ACGIH STEL 1000 ppm ISOBUTANE ACGIH TWA 1000 ppm PROPANE ACGIH TWA 1000 ppm PROPANE OSHA TWA 1000 ppm Table Z-1 \* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption. VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency. 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**

Odor, Color, Grade: light cream colored, sweet/fruity odor. General Physical Form: Gas Autoignition temperature No Data Available Flash Point -42.00 °F [Test Method: Tagliabue Closed Cup] Flammable Limits - LEL Approximately 1.5 % volume Flammable Limits - UEL Approximately 8.6 % volume Vapor Density 2.97 [Ref Std: AIR=1] Specific Gravity 0.697 [Ref Std: WATER=1] pH Approximately 6.7 Units not avail. or not appl. Melting point No Data Available Solubility in Water Nil Evaporation rate 1.90 [Ref Std: ETHER=1] Hazardous Air Pollutants <=1 % weight Volatile Organic Compounds 75 % [Test Method: tested per SCAQMD method 305] Percent volatile 75 % weight VOC Less H2O & Exempt Solvents 527 g/l [Test Method: tested per SCAQMD method 305] Viscosity 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 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.



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# 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. Dispose of empty product containers in a sanitary landfill. RECYCLE EMPTY AEROSOL CONTAINERS WHERE AVAILABLE.

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

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

# **SECTION 14: TRANSPORT INFORMATION**

## **ID Number UPC ID Number UPC**

 $\begin{array}{l} 62-4437-0921-7\ 62-4437-0922-5\ 00-21200-25463-5\\ 62-4437-0925-8\ 00-21200-30091-2\ 62-4437-0926-6\\ 62-4437-0929-0\ 00-21200-25463-5\ 62-4437-0930-8\\ 62-4437-0931-6\ 62-4437-0933-2\ 00-21200-25463-5\\ 62-4437-0931-6\ 62-4437-0933-2\ 00-21200-25463-5\\ 62-4437-0934-0\ 00-21200-25463-5\ 62-4437-4026-1\ 00-21200-76098-3\\ 62-4437-4030-3\ 00-21200-25463-5\ 62-4437-4830-6\ 00-21200-85853-6\\ 62-4437-4030-3\ 00-21200-45142-3\ 62-4437-4840-5\ 00-21200-85853-6\\ 62-4437-4930-4\ 00-21200-96315-5\ 62-4437-4931-2\ 00-21200-39245-0\\ 62-4437-4930-4\ 00-21200-85846-8\ 62-4437-4935-3\\ 62-4437-4938-7\ 00-21200-21210-8\ 62-4437-4937-9\ 00-21200-89541-8\\ 62-4437-4938-7\ 00-21200-39240-5\ 62-4437-4939-5\\ 62-4437-999-4\ CS-0406-2131-3\\ CS-0406-6984-1\ CS-0406-7003-9\\ \end{array}$ 

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

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient C.A.S. No % by Wt CYCLOHEXANE 110-82-7 10 - 20

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

#### Ingredient (Category if applicable) C.A.S. No Regulation Status

HEXANE 110-54-3 Toxic Substances Control Act (TSCA) 4 Test

Rule Chemicals Applicable CYCLOHEXANE 110-82-7 Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals Applicable

## STATE REGULATIONS

Contact 3M for more information.

#### CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA. 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. Contact 3M for more information.

Additional Information: ++ rosin, synthetic polymer, resin and antioxidant. Not hazardous according to Canadian WHMIS

criteria. Non-WHMIS controlled.

#### 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.



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#### **HMIS Hazard Classification**

#### Health: 2 Flammability: 4 Reactivity: 0 Protection: X - See PPE section.

Hazardous Material Identification System (HMIS(r)) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS(r) ratings are to be used with a fully implemented HMIS(r) program. HMIS(r) is a registered mark of the National Paint and Coatings Association (NPCA).

Revision Changes:

Section 5: Unusual fire and explosion hazard information was modified.

Section 7: Handling information was modified.

Section 8: Engineering controls information was modified.

Section 13: Waste disposal method information was modified.

Section 15: Inventories information was modified.

Section 8: Exposure guidelines ingredient information was modified.

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