MMM

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**DIVISION: ADHESIVES DIVISION** TRADE NAME:

3M(TM) Super 77(TM) Spray Adhesive

```
ID NUMBER/U.P.C.:
                      CS-0406-2131-3
                                                          CS-0406-6984-1
                      CS-0406-7003-9
                                                          62-4437-0921-7
                      62-4437-0922-5
                                       00-21200-25463-5
                                                          62-4437-0925-8
                                                                           00-21200-30091-2
                      62-4437-0926-6
                                                          62-4437-0927-4
                                                                           00-21200-25463-5
                      62-4437-0928-2
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                                                          62-4437-0929-0
                                                                           00-21200-25463-5
                      62-4437-0930-8
                                                          62-4437-0931-6
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                                       00-21200-25463-5
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                                                          62-4437-0934-0
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                                                          62-4437-4835-5
                                                                            00-21200-45142-3
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                                                                           00-21200-21210-9
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                                                                           00-21200-21210-8
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                                       00-21200-89541-8
                                                          62-4437-4938-7
                                                                           00-21200-39240-5
                      62-4437-4939-5
                                       00-21200-21210-9
                                                          62-4437-9999-4
```

ISSUED: FEBRUARY 21, 2001 SUPERSEDES: JANUARY 17, 2001 DOCUMENT: 11-4257-9

1. INGREDIENT	C.A.S. NO.	PERCENT		
ON-VOLATILE COMPONENTS - N.J.				
TRADE SECRET (T.S.) REGISTRY	NO			
04499600-5776P++	TradeSecret	20.0	_	30.0
YCLOHEXANE	110-22-7	10.0	_	• •
-METHYLPENTANE	707-07-5	5.0	_	20.0
SOBUTANE	7E_20_E	2.0	_	15.0
ROPANE	74-98-6	4	-	13
IMETHYL ETHER	115-10-6	4	-	13
-METHYLPENTANE	06-16-0	<u> </u>	-	13
- 3-DIMETUVI BIITANE	····· 70-14-U	<u> </u>	-	7
,3-DIMETHYLBUTANE	79-29-8	Ş	-	7
,2-DIMETHYLBUTANE	/5-83-2	Τ-	-	5
EXANE	110-54-3	. 1	-	1
OTE: IN CASE OF EMERGENCY: THE HOUR RESPONSE FROM ANY PH The components of this pr notification requirements ++ rosin, synthetic polym according to Canadian	ONE FOR ALL EMERGENG oduct are in complia of TSCA. er, resin and antion	CIES WI ance wi cidant.	TH THI: th the Not!	S PRODUCT. chemical



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## 1. INGREDIENT

**HEXANE** 

#### (continued)

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICAL OR CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND 40 CFR PART 372:

CYCLOHEXANE

#### 2. PHYSICAL DATA

FLASH POINT:

BOILING POINT:.... Compressed gas VAPOR PRESSURE: VAPOR DENSITY: EVAPORATION RATE: Compressed gas 2.97 Air = 1 1.90 Ether = 1SOLUBILITY IN WATER: ...... nil SP. GRAVITY:.... 0.697 Water = 1PERCENT VOLATILE: ..... 75 % by wt pH: VISCOSITY: ca. 6.7 N/A VISCOSITY: MELTING POINT..... N/D

APPEARANCE AND ODOR: liquid in aerosol, light cream colored, sweet/fruity odor.

## 3. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE LIMITS - LEL: .... ca. 1.5 % by vol
FLAMMABLE LIMITS - UEL: .... ca. 8.6 % by vol
AUTOIGNITION TEMPERATURE: ... N/D
EXTINGUISHING MEDIA:
Carbon dioxide, Dry chemical, Foam
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:
Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.
NFPA HAZARD CODES: HEALTH: 2 FIRE: 4 REACTIVITY: 0 AEROSOL STORAGE: 3
UNUSUAL REACTION HAZARD: none
OSHA FIRE HAZARD CLASS: Class IA Flammable Liquid

----- -42.00 F T.C.C.

## 4. REACTIVITY DATA

STABILITY: Stable
INCOMPATIBILITY - MATERIALS TO AVOID:
Heat.
HAZARDOUS POLYMERIZATION: Will Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide, Toxic Vapors, Gases or Particulates.



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#### 5. ENVIRONMENTAL INFORMATION

### SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Cover with absorbent material. Collect using non-sparking tools. Place in a U.S. DOT-approved container.

## RECOMMENDED DISPOSAL:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Facility must be capable of handling aerosol cans. Dispose of empty cans in a sanitary landfill. Dispose of waste product in a facility permitted to accept chemical waste.

RECYCLE EMPTY AEROSOL CONTAINERS WHERE AVAILABLE.

## ENVIRONMENTAL DATA:

Not determined.

#### REGULATORY INFORMATION:

Volatile Organic Compounds: 75 % tested per SCAQMD method 305. Volatile Organic Compounds: ca. 4.4 lb/gal. VOC Less H2O & Exempt Solvents: 527 gms/liter tested per SCAQMD method 305. Hazardous Air Pollutants: < 1 % by wt (0.04 lbs. HAPS/lbs Solids).

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

OTHER ENVIRONMENTAL INFORMATION:
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%.

## EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: Yes REACTIVITY: No ACUTE: Yes CHRONIC: Yes

# 6. SUGGESTED FIRST AID

#### EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

Flush skin with large amounts of water. If irritation persists, get medical attention.

### INHALATION:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical



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6. SUGGESTED FIRST AID

(continued)

attention.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

## 7. PRECAUTIONARY INFORMATION

## EYE PROTECTION:

Avoid eye contact with vapor, spray, or mist. Wear safety glasses with side shields.

#### SKIN PROTECTION:

Avoid prolonged or repeated skin contact.

#### **VENTILATION PROTECTION:**

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.

## 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-mask organic vapor respirator.

## PREVENTION OF ACCIDENTAL INGESTION:

Do not indest.

## RECOMMENDED STORAGE:

Store at temperatures below 120 degrees F (49 degrees C). Store out of direct sunlight. Keep out of the reach of children.

# FIRE AND EXPLOSION AVOIDANCE:

Aerosol container contains flammable gas under pressure. Kee from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor. Do not pierce or burn Keep away container, even after use. No smoking while handling this material. Avoid static discharge.

# OTHER PRECAUTIONARY INFORMATION:

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0
PERSONAL PROTECTION: X (See precautions, section 7.)

#### EXPOSURE LIMITS

INGREDIENTS VALUE UNIT TYPE AUTH SKIN\*



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#### 7. PRECAUTIONARY INFORMATION (continued)

	EXPOSURE LIMITS				
INGREDIENTS	VALUE	UNIT	TYPE	AUTH	SKIN*
NON-VOLATILE COMPONENTS	- N.J.				Ditait.
TRADE SECRET (T.S.) RE	GISTRY NO.				
0//00/00 5555.	NONE	NONE	NONE	NONE	
	300	ppm	TWA	ACGIH	
		ppm ppm	ŤŴÃ	OSHA	
^ METING SENTAND	500	ppm	TWA	ACGIH	
2-METHYLPENTANE		DDW DDW	STEL	ACGIH	
ISOBUTANE		NONE	NONE	NONE	
PROPANE		PPM	TWA	OSHA	
PROPANE		ppm mag	ŤŴÃ	ACGIH	
ひていこていい ニティース		ppm mqq	TWA	CMRG	
		• • · · · ·	TWA	AIHA	
		ppm mag	TWA		
		ppm ppm		ACGIH	
0 7 5 7 14 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	500	ppm	STEL	ACGIH	
0 7 0 7 1 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1		PPm	TWA	ACGIH	
0 0 DILLETING DILLE	1000	ppm mqq	STEL	ACGIH	
2,2-DIMETHYLBUTANE		ppm	TWA	ACGIH	
		PPM	STEL	ACGIH	
		PPM	TWA	ACGIH	Y
HEXANE		PPM	TWA	OSHAV	
UEVANE	OSHA	VACATED	PEL		
HEXANE	500	PPM	TWA	OSHA	

\* SKIN NOTATION: Listed substances indicated with "Y" under SKIN 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.

## SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AIHA: American Industrial Hygiene Assoc. Workplace Environmental Exposure Level Guideline

- OSHA: Occupational Safety and Health Administration OSHAV: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.
  - CMRG: Chemical Manufacture Recommended Guidelines
- NONE: None Established

# 8. HEALTH HAZARD DATA

## EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

#### SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact):



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## 8. HEALTH HAZARD DATA

#### (continued)

signs/symptoms can include redness, swelling, and itching.

#### INHALATION:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

Peripheral Neuropathy: signs/symptoms can include tingling of extremities, incoordination, numbness, weakness and tremors.

#### IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

## SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE JANUARY 17, 2001 ISSUE

INGREDIENTS

SECTION CHANGED SINCE JANUARY 17, 2001 ISSUE



1

MATERIAL SAFETY DATA SHEET

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SECTION CHANGE DATES

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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