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Material Safety Data Sheet
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1 Chemical Product and Company Identification

Tradename:
3M(TM) SUPER 77 CLASSIC SPRAY ADHESIVE
Product ID:
CS-0406-2131-3 CS-0406-7294-4 CS-0406-7039-3 CS-0406-7025-2
CS-0406-6984-1 CS-0406-7003-9 CS-0406-7026-0 CS-0406-7045-0
CS-0406-7057-5 62-4437-4030-3 62-4437-4830-6 62-4437-4925-4
62-4437-4930-4 62-4437-4933-8 62-4437-4935-3 62-4437-4936-1
62-4437-0921-7 62-4437-0926-6 62-4437-0928-2 62-4437-0929-0
62-4437-0930-8 62-4437-0931-6 62-4437-9999-4 62-4437-0925-8
62-4437-0933-2 62-4437-0927-4 62-4437-4931-2 62-4437-4938-7
62-4437-0922-5 62-4437-0934-0 62-4437-4835-5 62-4437-4926-2
62-4437-4026-1 62-4437-4939-5 62-4437-4937-9 62-4437-4840-5
62-4437-4920-5 62-4437-4921-3 62-4437-4950-2 62-4437-4955-1
Intended Use of Product:
Adhesive aerosol
Division:
INDUSTRIAL ADHESIVES AND TAPES

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2 Hazards Identification

Critical Hazards:
Aerosol container contains flammable material under pressure.
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
May be absorbed following inhalation and cause target organ effects.
May be absorbed following ingestion and cause target organ effects.
Prolonged or repeated exposure may cause: Peripheral Neuropathy:
Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.
See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
N.J.T.S. Reg No. 04499600-5776P	Trade Secret	15 - 40
CYCLOHEXANE	110-82-7	10 - 30
2,3-DIMETHYLBUTANE	79-29-8	10 - 15
NEOHEXANE	75-83-2	10 - 15
3-METHYLPENTANE	96-14-0	10 - 15
2-METHYLPENTANE	107-83-5	10 - 15
ISOBUTANE	75-28-5	7 - 13
PROPANE	74-98-6	7 - 13
DIMETHYL ETHER	115-10-6	7 - 13
PENTANE	109-66-0	1 - 5
HEXANE	110-54-3	0.5 - 1.5

NOTE:

New Jersey Trade Secret Registry Number 04499600-5776P is a Trade Secret material which is not controlled according to WHMIS criteria.

Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water for at least 20 minutes or until chemical is removed. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

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

Instructions for Inhalation:

If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

Instructions for Ingestion:

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.

Special Instructions:

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

5 Fire Fighting Measures

Flash point:	? -41.1 C TCC
Lower Explosive Limit (%):	Approximately 1.5 % by volume
Upper Explosive Limit (%):	Approximately 8.6 % by volume
Autoignition temperature:	Not Available

Suitable Extinguishing Media:

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

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back. Aerosol container contains gas under pressure.

Combustion Products from Fire:

Aldehydes - During Combustion;
Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;
Toxic Vapour, Gas, Particulate - During Combustion;
Unusual Fire and Explosion Hazards
None known.

Fire Fighting Procedures:

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

NFPA: Health 2
NFPA: Fire 4
NFPA: Reactivity 0
NFPA: Unusual Reaction Hazard

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.

Special Instructions:

Aerosol container contains flammable material under pressure.

6 Accidental Release Measures

Personal Precautions:

Place leaking containers in a well-ventilated area, preferably in an exhaust hood, if available, or outdoors. 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 non-sparking 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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

Environmental Procedures

Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities.

Dispose of collected material as soon as possible.

Methods for cleaning up

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. 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 bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue. Seal the container.

7 Handling and Storage

Storage Requirements:

No data available.

Incompatible Materials:

Store away from acids; Store away from heat; Store out of direct sunlight. Store away from oxidizing agents.

Ventilation:

No data available.

Fire Prevention:

No smoking while handling this material. Extremely flammable liquid and vapour.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Use Instructions:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not pierce or burn container, even after use. Avoid breathing of vapours, mists or spray. Avoid eye contact with vapours, mists, or spray. Vapours may ignite explosively. May cause flash fire. Prevent build-up of vapours - open all windows and doors. Maintain vapour concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapours may settle in low-lying areas. Keep away from heat, sparks, and open flame. Do not smoke or ignite matches, lighters, etc. Avoid contact with oxidizing agents.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.
The following should be worn alone or in combination, as appropriate, to prevent eye contact:
Safety glasses with side shields

Hand Protection:

The following glove material(s) are recommended: nitrile rubber;

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.

Respiratory Protection:

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:
Half facepiece or fullface air-purifying respirator with organic vapor cartridges.
Organic vapor cartridges may have short service life.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.
Keep out of the reach of children.

Recommended Ventilation:

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Use with functioning spray booth or local exhaust. Do not use in a confined area or areas with little or no air movement. Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray.

If ventilation is not adequate, use respiratory protection equipment. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

N.J.T.S. Reg No. 04499600-5776P (Trade Secret)
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
No data available.
CYCLOHEXANE (110-82-7)
LD50 (rat, oral) 12,705 mg/kg
LC50 (rat, inhalation/4 hours) 13.9 mg/l
Exposure Limits
ACGIH: TWA 100 ppm
2,3-DIMETHYLBUTANE (79-29-8)
Specific Ingredient Data
No data available.
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
ACGIH: TWA 500 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
ACGIH: STEL 1000 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
NEOHEXANE (75-83-2)
Specific Ingredient Data
No data available.
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
ACGIH: TWA 500 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
ACGIH: STEL 1000 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
3-METHYLPENTANE (96-14-0)
Specific Ingredient Data
No data available.
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
ACGIH: TWA 500 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
ACGIH: STEL 1000 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
2-METHYLPENTANE (107-83-5)
Specific Ingredient Data
No data available.
LD50 (rat, oral) No data available.

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LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
ACGIH: TWA 500 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
ACGIH: STEL 1000 ppm Category: HEXANE (ISOMERS OTHER THAN N-HEXANE)
ISOBUTANE (75-28-5)
Specific Ingredient Data
No data available.
LD50 (rat, oral) No data available.
LC50 (rat, inhalation/4 hours) No data available.
Exposure Limits
ACGIH: TWA 1000 ppm
PROPANE (74-98-6)

Specific Ingredient Data
 No data available.
 LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 ACGIH: TWA 1000 ppm
 DIMETHYL ETHER (115-10-6)
 Specific Ingredient Data
 LC50 (rat, gas, 4 hours) 164,000 ppm
 LD50 (rat, oral) No data available.
 LC50 (rat, inhalation/4 hours) No data available.
 Exposure Limits
 AIHA: TWA 1000 ppm
 CMRG: TWA 1000 ppm
 PENTANE (109-66-0)
 LD50 (rat, oral) > 2000 mg/kg
 LC50 (rat, inhalation/4 hours) ? 364 g/m3
 Exposure Limits
 ACGIH: TWA 600 ppm
 ACGIH: TWA 1770 mg/m3
 HEXANE (110-54-3)
 LD50 (rat, oral) 28710 mg/kg
 LC50 (rat, inhalation/4 hours) 48000 ppm
 Exposure Limits
 ACGIH: TWA 50 ppm (skin contact contributes to exposure)

9 Physical and Chemical Properties

Physical form,Color,Odour: Gas; Liquid in aerosol; light cream colour; sweet/fruity odour;
 Odour Threshold: No data available.
 pH: Approx 6.7
 Boiling point/boiling range: No data available.
 Melting point/melting range: Not Available

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Vapour pressure: No data available.
 Water Solubility: Nil
 Partition coefficient (K o/w): Not Available
 Specific gravity: 0.697 Water=1
 Vapour density: 2.97 Air=1
 Volatile organic compounds: 527 gms/liter (EU VOC content)
 Evaporation rate: 1.9 Ether=1
 Viscosity: Not applicable
 Percent Volatile: 75 % by weight

10 Stability and Reactivity

Conditions to Avoid:
 Store away from heat; Store out of direct sunlight.
 Materials to Avoid:
 Store away from acids; Strong oxidizing agents;
 Hazardous Decomposition:
 Aldehydes - During Combustion;
 Carbon monoxide - During Combustion;
 Carbon dioxide - During Combustion;
 Toxic Vapour, Gas, Particulate - During Combustion;
 Stability and Reactivity:
 Stable. Hazardous polymerization will not occur.

11 Toxicological Information

Effects from Eye Contact:

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

Effects from Skin Contact:

Prolonged or repeated exposure may cause:

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

Effects from 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. Single exposure, above recommended guidelines, may cause: 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.

Effects from Ingestion:

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

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May be absorbed following ingestion and cause target organ effects.

Sensitization Information:

No data available.

Carcinogenicity:

No data available.

Mutagenicity:

No data available.

Reproductive Effects:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

Other Effects & Information:

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: Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Other Effects and 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 Chromatographic analysis for halogen and sulfur content.

Chlorine 0.05 % Fluorine 0.001 % Bromine 0.001 % Sulfur 0.035 %

13 Disposal Considerations

Product as Sold:

If necessary, vent in hood or remote area. A qualified person should adjust the release rate so gas concentration in ducts is less than 20% of the lower explosive limit (LEL). The LEL is the lowest concentration that can propagate (spread) a flame. Incinerate in a permitted hazardous waste incinerator. For quantities <10 lbs. (5 kg): 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.

Product Packaging:

No data available.

Special Instructions:

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

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Consumer Commodity

Special Information:: Contact 3M for more information. 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 not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.

15 Regulatory Information

WHMIS Classification:

A, B5, D2A, D2B

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

- AICS - Australian Inventory of Chemical Substances
- DSL - Domestic Substances List (Canada)
- EINECS - European Inventory of Existing Commercial Chemical Substances
- KECI - Korean Existing Chemicals Inventory
- PICCS - Philippines Inventory of Commercial Chemical Substances
- MITI - Ministry of International Trade and Industry (JAPAN)
- TSCA - Toxic Substances Control Act (USA)

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

- Added product id(s) to the MSDS;
- Section 2 - Composition/Information on Ingredients;
- Section 3 - Hazards Identification - Critical Hazards;
- Section 4 - First Aid Measures;
- Section 5 - Fire Fighting Measures
- Section 6 - Accidental Release Measures;
- Section 7 - Handling and Storage;
- Section 8 - Exposure Controls/Personal Protection;
- Section 9 - Physical and Chemical Properties;
- Section 10 - Stability and Reactivity;
- Section 11 - Toxicological Information;
- Section 12 - Ecological Information
- Section 13 - Disposal Considerations;
- Section 15 - Regulatory Information

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