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Material Safety Data Sheet
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1 Chemical Product and Company Identification

Tradename:

3M(TM) SUPER 77(TM) MULTIPURPOSE ADHESIVE (AEROSOL)

Product ID:

62-4977-0926-1	62-4977-0927-9	62-4977-0928-7	62-4977-0929-5
62-4977-0939-4	62-4977-2926-9	62-4977-2928-5	62-4977-2929-3
62-4977-4026-6	62-4977-4030-8	62-4977-4830-1	62-4977-4835-0
62-4977-4840-0	62-4977-4845-9	62-4977-4925-9	62-4977-4926-7
62-4977-4927-5	62-4977-4928-3	62-4977-4930-9	62-4977-4931-7
62-4977-4932-5	62-4977-4933-3	62-4977-4935-8	62-4977-4937-4
62-4977-4938-2	62-4977-4939-0	62-4977-2924-4	62-4977-4920-0
62-4977-4929-1	62-4977-4950-7	62-4977-4977-0	70-0713-6297-7
62-4977-4730-3			

Intended Use of Product:

Aerosol Adhesive

Division:

AD - Industrial Adhesives and Tapes

2 Hazards Identification

Critical Hazards:

Aerosol container contains flammable material under pressure.

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

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

May be absorbed following inhalation and cause target organ effects.

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

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

WARNING: This product contains a chemical which has some evidence to indicate the possibility of adverse effects on reproductive development and/or fertilization. (110-54-3)

See Sections 7 and 11 for further information.

3 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
NON-VOLATILE COMPONENTS (NJTSR# 04499600-6433P)	Trade Secret	20 - 30
ACETONE	67-64-1	20 - 30
PROPANE	74-98-6	15 - 25
CYCLOHEXANE	110-82-7	10 - 20
PETROLEUM DISTILLATE	64742-49-0	10 - 20
HEXANE	110-54-3	0.1 - 1.0

NOTE:

NON-VOLATILE COMPONENTS 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:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

Instructions for Skin Contact:

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

Instructions for Inhalation:

Remove person to fresh air. Get medical attention.

Instructions for Ingestion:

Rinse mouth. If you feel unwell, 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 (%): Not Available

Upper Explosive Limit (%): Not Available

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.

Combustion Products from Fire:

Aldehydes - During Combustion;

Carbon monoxide - During Combustion;

Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

Aerosol container contains flammable material under pressure.

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Evacuate area.

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:

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. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Environmental Procedures

Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

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. Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate 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. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. 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. Seal the container. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Incompatible Materials:

Store away from heat;
Store away from acids;
Store away from oxidizing agents.

Ventilation:

No data available.

Fire Prevention:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Do not spray on an open flame or other ignition source. Use only non-sparking tools.

Explosion Prevention:

Pressurized container: Do not pierce or burn, even after use. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

Use Instructions:

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required.

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:
Indirect vented goggles;

Hand Protection:

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

Avoid breathing of vapours, mists or spray.
Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:
Half facepiece or fullface supplied-air respirator.

Ingestion (Prevention):

No data available.

Recommended Ventilation:

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 relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

NON-VOLATILE COMPONENTS (NJTSR# 04499600-6433P) (Trade Secret)

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

Exposure Limits

No data available.

ACETONE (67-64-1)

LD50 (rat, oral) 5800 mg/kg

LC50 (rat, inhalation/4 hours) 29,900 ppm

Exposure Limits

ACGIH: TWA 500 ppm (Table A4)

ACGIH: TWA 1780 mg/m3 (Table A4)

ACGIH: STEL 750 ppm (Table A4)

ACGIH: STEL 2380 mg/m3 (Table A4)

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

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

PETROLEUM DISTILLATE (64742-49-0)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

LC50 (rat, inhalation/4 hours) No data available.

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Exposure Limits

CMRG: TWA 50 ppm

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)

ACGIH-TWA: 50 ppm (skin contact contributes to exposure)

Category: Hexane

9 Physical and Chemical Properties

Physical form,Color,Odour:	Liquid; Aerosol; Clear; sweet, fruity odour.
Odour Threshold:	No data available.
pH:	Not Available
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not Available
Vapour pressure:	No data available.
Water Solubility:	Nil
Partition coefficient (K o/w):	Not Available
Specific gravity:	0.726 Water=1
Vapour density:	2.97 Air=1
Volatile organic compounds:	<= 537 gms/liter (EU VOC content)
Evaporation rate:	1.9 Ether=1
Viscosity:	Not applicable
Percent Volatile:	No data available.

10 Stability and Reactivity

Conditions to Avoid:
Store away from heat;

Materials to Avoid:
Store away from acids;
Strong oxidizing agents;

Hazardous Decomposition:
Aldehydes - During Combustion;
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;

Stability and Reactivity:
Stable. Hazardous polymerization will not occur. This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

11 Toxicological Information

Effects from Eye Contact:
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Effects from Skin Contact:
Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.
Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

Effects from Inhalation:

Intentional concentration and inhalation may be harmful or fatal.
Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

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

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.

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:

WARNING: This product contains a chemical which has some evidence to indicate the possibility of adverse effects on reproductive development and/or fertilization. (110-54-3)

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.

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

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

No data available.

Ecofate Data:

13 Disposal Considerations

Product as Sold:

No data 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:

Limited Quantity;

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.

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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)

CICS - Chinese Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

PICCS - Philippines Inventory of Commercial Chemical Substances

TSCA - Toxic Substances Control Act (USA)

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 2 - Hazards Identification - Critical Hazards

Section 4 - First Aid Measures

Section 6 - Accidental Release Measures

Section 7 - Handling and Storage

Section 10 - Stability and Reactivity;

Section 11 - Toxicological Information;

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