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Material Safety Data Sheet

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Prepared by: Corporate Regulatory Services, 3M Canada Company
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1 Product Identification

Tradename:
3M(TM) POLYSTYRENE FOAM INSULATION SPRAY ADHESIVE 78
Product ID:
CS-0406-7112-8 XT-0615-6786-0 CX-1406-7013-6 62-4951-4930-4
62-4951-4931-2 62-4951-4935-3 62-4951-4938-7 62-4951-4730-8
Intended Use of Product:
Aerosol Adhesive
Division:
Industrial Adhesives and Tapes

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
DIMETHYL ETHER	115-10-6	25 - 35
NONVOLATILE COMPONENTS (NJTSR# 04499600-6463P)	Trade Secret	15 - 25
CYCLOHEXANE	110-82-7	10 - 20
1,1-DIFLUOROETHANE	75-37-6	10 - 20
HEPTANES	142-82-5	3 - 7
PETROLEUM NAPHTHA	64742-48-9	1 - 5
ACETONE	67-64-1	1 - 5
3-METHYLPENTANE	96-14-0	1 - 5
2-METHYLPENTANE	107-83-5	1 - 5

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2,3-DIMETHYLBUTANE	79-29-8	1 - 5
HEXANE	110-54-3	0.1 - 0.4

NOTE:

NON-VOLATILE COMPONENTS is a non-hazardous Trade Secret material according to WHMIS criteria.

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

3 Hazards Identification

Critical Hazards:

Flammable liquified gas.

Aerosol container contains flammable gas under pressure.

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

Delayed Dermal Irritation: Signs/symptoms may include localized redness, swelling, itching, and pain. These effects may not appear immediately following exposure.

May be absorbed through skin and cause target organ effects.

May be absorbed following inhalation and cause target organ effects.

See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water. 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:

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

Instructions for Ingestion:

Do not induce vomiting. Get immediate medical attention.

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5 Fire Fighting Measures

Flash point:

-45.6 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;
Hydrocarbons - During Combustion;
Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;
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
Special Instructions:
Aerosol container contains flammable material under pressure.

6 Accidental Release Measures

Personal Precautions:
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.
Spill Response:
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. 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.

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7 Handling and Storage

Storage Requirements:
No data available.
Incompatible Materials:
Store away from heat;
Store out of direct sunlight.
Store away from acids;
Ventilation:
No data available.
Fire Prevention:
No smoking while handling this material. Flammable liquified gas.
Do not spray near flames or sources of ignition. Aerosol container
contains flammable gas under pressure.
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.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact.

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:

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.

Skin Protection:

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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.

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 functioning spray booth or local exhaust.

Use with appropriate local exhaust ventilation.

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, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

DIMETHYL ETHER (115-10-6)	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	164000 ppm
Exposure Limits	
CMRG: TWA 1000 ppm	
AIHA: TWA 1000 ppm	
NONVOLATILE COMPONENTS (NJTSR# 04499600-6463P) (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)	No data available.
Exposure Limits	
ACGIH: TWA 100 ppm	
1,1-DIFLUOROETHANE (75-37-6)	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	64,000 ppm
Exposure Limits	
CMRG: TWA 1000 ppm	
AIHA: TWA 1000 ppm	

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AIHA: TWA 2700 mg/m3	
HEPTANES (142-82-5)	
LD50 (rat, oral)	> 15000 mg/kg
LC50 (rat, inhalation/4 hours)	� 103 g/m3
Exposure Limits	
ACGIH: TWA 400 ppm	
ACGIH: STEL 500 ppm	
PETROLEUM NAPHTHA (64742-48-9)	
Specific Ingredient Data	
No data available.	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
3M: TWA 100 ppm	
CMRG: TWA 300 ppm	
CMRG: TWA 1900 mg/m3	
ACETONE (67-64-1)	
LD50 (rat, oral)	5800 mg/kg
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
ACGIH: TWA 500 ppm (Table A4)	
ACGIH: STEL 750 ppm (Table A4)	
3-METHYLPENTANE (96-14-0)	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
ACGIH-TWA: 500 ppm	
ACGIH: STEL 1000 ppm	
2-METHYLPENTANE (107-83-5)	
LD50 (rat, oral)	No data available.

LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
ACGIH: TWA 500 ppm	
ACGIH: STEL 1000 ppm	
2,3-DIMETHYLBUTANE (79-29-8)	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
ACGIH: TWA 500 ppm	
ACGIH: STEL 1000 ppm	
HEXANE (110-54-3)	
LD50 (rat, oral)	28710 mg/kg
LC50 (rat, inhalation/4 hours)	38,500 ppm
Exposure Limits	
ACGIH: TWA 50 ppm (skin contact contributes to exposure)	

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9 Physical and Chemical Properties

Physical form,Color,Odour:	Gas; Aerosol; Clear; sweet, fruity odour.
Odour Threshold:	No data available.
pH:	Not Available
Boiling point/boiling range:	No data available.
Melting point/melting range:	Not Available
Vapour pressure:	No data available.
Water Solubility:	Nil
Specific gravity:	0.761 water=1
Vapour density:	>= 2.57 Air=1
Volatile organic compounds:	Approx 55 % Calculated per SCAQMD Rule 443.1
Evaporation rate:	1.9 Ether=1
Viscosity:	Not applicable
Percent Volatile:	Approximately 80 % by weight

10 Stability and Reactivity

Conditions to Avoid:
Heat;
Store out of direct sunlight.

Materials to Avoid:
Store away from acids;

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

Delayed Dermal Irritation: Signs/symptoms may include localized redness, swelling, itching, and pain. These effects may not appear immediately following exposure.

May be absorbed through skin and cause target organ effects.

Effects from Inhalation:

Intentional concentration and inhalation may be harmful or fatal.

Upper Respiratory Tract Irritation: Signs/symptoms may include

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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, nausea, diarrhea and vomiting.

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, above recommended guidelines, 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).

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

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13 Disposal Considerations

Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Facility must be capable of handling aerosol cans. 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.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification:

A, B5, 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:

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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
KECI - Korean Existing Chemicals Inventory
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:

Deleted Product I.D.'s

Added product id(s) to the MSDS;

Section 4 - First Aid Measures;

Section 5 - Fire Fighting Measures

Section 8 - Exposure Controls/Personal Protection;

Section 9 - Physical and Chemical Properties;

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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