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**MATERIAL SAFETY DATA SHEET**

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1 Product Identification

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Tradename: **3M(TM) SCOTCH-WELD(TM) SUPER 77(TM) CYLINDER SPRAY ADHESIVE, CLEAR**  
Product ID:  
62-4979-8030-0  
Intended Use of Product:  
Adhesive;  
Division:  
AD - Industrial Adhesives and Tapes Division

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2 Composition/Information on Ingredients

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Ingredient Name	CAS Number	Percentage
HYDROTREATED LIGHT NAPHTHA (PETROLEUM)	64742-49-0	15 - 40
CYCLOHEXANE	110-82-7	10 - 30
Non-Volatile Ingredients - N.J.T.S. Reg No. 04499600-5776P	Trade Secret	10 - 30
DIMETHYL ETHER	115-10-6	10 - 30
PROPANE	74-98-6	3 - 7
ISOBUTANE	75-28-5	3 - 7
HEXANE	110-54-3	0.1 - 1.0

NOTE:

NON-VOLATILE COMPONENTS is a Trade Secret material.

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Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.  
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### 3 Hazards Identification

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#### Critical Hazards:

Extremely flammable liquid and vapour.  
Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.  
May be absorbed through skin and cause target organ effects.  
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.

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### 4 First Aid Measures

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#### Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

#### Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

#### Instructions for Inhalation:

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

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### 5 Fire Fighting Measures

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Flash point:	-45.56 C CC Flammable Gas
Lower Explosive Limit (%):	1.2 % by volume
Upper Explosive Limit (%):	27 % 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:

Extremely flammable liquid and vapour. Closed containers exposed to

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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:

Hydrocarbons - During Combustion;  
Formaldehyde - During Combustion;  
Carbon monoxide - During Combustion;  
Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

None known.

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. Water may be used to blanket the fire. 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

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## 6 Accidental Release Measures

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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. 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. Close cylinder. If the cylinder can't be closed, place in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors. 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. 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.

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## 7 Handling and Storage

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### Storage Requirements:

No data available.

### Incompatible Materials:

Store away from heat; Sparks and/or Flames; Store out of direct sunlight. Store away from oxidizing agents.

### Ventilation:

Keep container in well-ventilated area.

### Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Do not spray near flames or sources of ignition. Extremely flammable liquid and vapour.

### Explosion Prevention:

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

### Static Prevention:

Avoid static discharge.

### Use Instructions:

Contents may be under pressure, open carefully. Keep container tightly closed. Do not pierce or burn container, even after use. 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. For industrial or professional use only. Avoid eye contact with vapours, mists, or spray. Avoid skin contact. Avoid breathing of vapours, mists or spray. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

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## 8 Exposure Controls/Personal Protection

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### Personal Protection

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#### 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 Indirect vented goggles;

#### Hand Protection:

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

#### Skin Protection:

Avoid skin contact.

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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 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.

Recommended 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, 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  
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HYDROTREATED LIGHT NAPHTHA (PETROLEUM) (64742-49-0)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

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

Exposure Limits

CMRG: TWA 50 ppm

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

Non-Volatile Ingredients - N.J.T.S. Reg No. 04499600-5776P (Trade Secret)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

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

Exposure Limits

No data available.

DIMETHYL ETHER (115-10-6)

Specific Ingredient Data

No data available.

LD50 (rat, oral) No data available.

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

Exposure Limits

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CMRG: TWA 1000 ppm  
AIHA: 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  
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  
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 176 mg/m3 (skin contact contributes to exposure)

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## 9 Physical and Chemical Properties

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Physical form,Color,Odour:	Gas; Clear; solvent odour;
Odour Threshold:	No data available.
pH:	Not applicable
Boiling point/boiling range:	<= 20.0 C
Melting point/melting range:	Not applicable
Vapour pressure:	84.7 psia at 20 C
Water Solubility:	Nil
Specific gravity:	0.735 Water=1
Vapour density:	>= 1 Air=1
Volatile organic compounds:	534 gms/liter SCAQ443
Evaporation rate:	Not Available
Viscosity:	Not applicable
Percent Volatile:	No data available.

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10 Stability and Reactivity

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Conditions to Avoid:

Store away from heat; Sparks and/or Flames; Store out of direct sunlight.

Materials to Avoid:

Store away from oxidizing agents.

Hazardous Decomposition:

Hydrocarbons - During Combustion;  
Formaldehyde - During Combustion;  
Carbon monoxide - During Combustion;  
Carbon dioxide - During Combustion;

Stability and Reactivity:

Stable. Hazardous polymerization will not occur.

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11 Toxicological Information

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Effects from Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Effects from Skin Contact:

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

May be absorbed through skin and cause target organ effects.

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.

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:

No data available.

Component Based Information:

No data available.

Product Based Information:

No data available.

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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.

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12 Ecological Information

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Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

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13 Disposal Considerations

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Product as Sold:

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.

Product Packaging:

No data available.

Special Instructions:

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

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14 Transport Information

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Transportation of Dangerous Goods

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TDG Classification:

Regulated Material.

Proper Shipping Name:

LIQUEFIED GAS, FLAMMABLE,  
N.O.S.\*

Technical Name:

(DIMETHYL ETHER, PROPANE)

Class/Division:

2.1

UN Number:

UN 3161

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



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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

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15 Regulatory Information

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WHMIS Classification: A, B5, D2A, D2B  
Claim Status: Claim for Exemption is in process.

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:

TSCA - Toxic Substances Control Act (USA)

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16 Other Information

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Reason for Reissue:  
Added French translation to MSDS

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.