Material Safety Data Sheet
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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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    PRODUCT NAME: 3M }\mp@subsup{}{}{\textrm{TM}}\mathrm{ Scotch-Weld}\mp@subsup{}{}{\textrm{TM}}\mathrm{ Super 77TM Cylinder Spray Adhesive (clear or red)
    MANUFACTURER: 3M
        DIVISION: Industrial Adhesives and Tapes Division
        ADDRESS: 3M Center, St. Paul, MN 55144-1000
```

            EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)
        Issue Date: 05/14/13
        Supercedes Date: 11/27/12
        Document Group: 23-2991-0
    
## Product Use:

Limitations on Use: $\quad$ Sale and use severely restricted due to high VOC in CT, DE, ME, MD, NH, NJ, NY, PA, RI, VA, DC, IL, IN, OH, in CA per R-1168.
Specific Use: general purpose solvent based adhesive
Intended Use: Industrial use

## SECTION 2: INGREDIENTS

## Ingredient

Hydrotreated Light Naphtha
N.J.T.S. Reg No. 04499600-5776P

Dimethyl Ether
Cyclohexane
Propane
Isobutane
Hexane

| C.A.S. No. | \% by Wt |
| :--- | :--- |
| $\frac{64742-49-0}{15-40}$ |  |
| Trade Secret | $20-30$ |
| $115-10-6$ | $10-30$ |
| $110-82-7$ | $10-30$ |
| $74-98-6$ | $3-7$ |
| $75-28-5$ | $3-7$ |
| $110-54-3$ | $1-2$ |

## SECTION 3: HAZARDS IDENTIFICATION

### 3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: liquid, solvent odor, red or clear
General Physical Form: Gas
Immediate health, physical, and environmental hazards: Flammable liquefied gas. Extremely flammable liquid and vapor.

Vapors may travel long distances along the ground or floor to an ignition source and flash back.
May cause target organ
effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

### 3.2 POTENTIAL HEALTH EFFECTS

## Eye Contact:

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

## Skin Contact:

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

## Inhalation:

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

Single exposure, above recommended guidelines, may cause:
Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.
Intentional concentration and inhalation may be harmful or fatal.
May be absorbed following inhalation and cause target organ effects.

## 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.

## Target Organ Effects:

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.

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

## SECTION 4: FIRST AID MEASURES

### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.
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.
Inhalation: Remove person to fresh air. Get immediate medical attention.
If Swallowed: 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.

### 4.2 NOTE TO PHYSICIANS

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

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1 FLAMMABLE PROPERTIES

## Autoignition temperature <br> Flash Point

Flammable Limits(LEL)
Flammable Limits(UEL)

No Data Available
$-50^{\circ} \mathrm{F}$ [Test Method: Closed Cup] [Details: Flammable Gas]
1.2 \% volume

27 \% volume

### 5.2 EXTINGUISHING MEDIA

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

### 5.3 PROTECTION OF FIRE FIGHTERS

Special 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).

Unusual Fire and Explosion Hazards: Flammable liquefied gas. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

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.

### 6.2. Environmental precautions

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.

## Clean-up methods

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. 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.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

## SECTION 7: HANDLING AND STORAGE

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Contents may be under pressure, open carefully. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Avoid breathing of vapors, mists or spray. Avoid skin contact. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Vapors may ignite explosively. May cause flash fire. Prevent build-up of vapors - open all windows and doors. Maintain vapor concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapors 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 contact with oxidizing agents. 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.

### 7.2 STORAGE

Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Store away from oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 ENGINEERING CONTROLS

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

### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray.
The following eye protection(s) are recommended: Safety Glasses with side shields
Indirect Vented Goggles

### 8.2.2 Skin Protection <br> 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.
Gloves made from the following material(s) are recommended: Nitrile Rubber
Polyvinyl Alcohol (PVA)

### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.
An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapors
For questions about suitability for a specific application, consult with your respirator manufacturer. Organic vapor cartridges may have short service life.

### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

### 8.3 EXPOSURE GUIDELINES

| Ingredient | Authority |  | Type |  |
| :--- | :--- | :--- | :--- | :--- |
| Cyclohexane | ACGIH | TWA |  | $\underline{100 \mathrm{pmit}}$ |$\underline{\text { Additional Information }}$

[^0] either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

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SOURCE OF EXPOSURE LIMIT DATA:
    ACGIH: American Conference of Governmental Industrial Hygienists
    CMRG: Chemical Manufacturer Recommended Guideline
    OSHA: Occupational Safety and Health Administration
    AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade:<br>General Physical Form:<br>Autoignition temperature<br>Flash Point<br>Flammable Limits(LEL)<br>Flammable Limits(UEL)<br>Boiling Point<br>Density<br>Vapor Density<br>Vapor Pressure<br>Specific Gravity<br>pH<br>Melting point<br>Solubility in Water<br>Evaporation rate<br>Hazardous Air Pollutants<br>Volatile Organic Compounds<br>Kow - Oct/Water partition coef<br>VOC Less H2O \& Exempt Solvents<br>VOC Less H2O \& Exempt Solvents<br>VOC Less H2O \& Exempt Solvents<br>Viscosity<br>Solids Content

## SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.
Materials and Conditions to Avoid:
10.1 Conditions to avoid

Heat
Sparks and/or flames
10.2 Materials to avoid

Strong oxidizing agents
Hazardous Polymerization: Hazardous polymerization will not occur.

## Hazardous Decomposition or By-Products

Substance
Hydrocarbons
Formaldehyde
Carbon monoxide
Carbon dioxide

## Condition

During Combustion
During Combustion
During Combustion
During Combustion

## SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

## SECTION 12: ECOLOGICAL INFORMATION

## ECOTOXICOLOGICAL INFORMATION

Not determined.

## CHEMICAL FATE INFORMATION

Not determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: 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.
EPA Hazardous Waste Number (RCRA): D001 (Ignitable)
Since regulations vary, consult applicable regulations or authorities before disposal.

## SECTION 14:TRANSPORT INFORMATION

## ID Number(s):

62-4979-8030-0, 62-4979-8032-6, 62-4979-8830-3

## SECTION 15: REGULATORY INFORMATION

## US FEDERAL REGULATIONS

Contact 3M for more information.
311/312 Hazard Categories:
Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes
Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

| Ingredient |  |
| :--- | :--- |
| Cyclohexane | C.A.S. No |
| $110-82-7$ | \% by Wt |
| $10-30$ |  |

## STATE REGULATIONS

Contact 3M for more information.

## CHEMICAL INVENTORIES

The components of this product are in compliance with the chemical notification requirements of TSCA.
All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Non hazardous according to WHMIS criteria.
Contact 3 M for more information.

WHMIS: Non-hazardous

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: OTHER INFORMATION

NFPA Hazard Classification<br>Health: 2 Flammability: 4 Reactivity: 0 Special Hazards: 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.

## Revision Changes:

Section 1: Product use information was modified.
Section 14: ID Number(s) Template 1 was modified.
Section 15: EPCRA 313 information was modified.
Section 8: Exposure guidelines ingredient information was modified.
Copyright was modified.

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[^0]:    * Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye,

