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3M™ Super 77 Spray Adhesive



3M™ Spray 77™ Adhesive has high coverage; fast, aggressive tack; and a long-bonding range. It meets performance requirements of MMM-A-1058A.

Additional Information

3M™ Spray 77™ Adhesive is versatile -- it securely bonds most light-weight materials, plus it has low soak-in for long-lasting bonds. It is excellent for jobs in display and furniture -- it bonds thin decorative film, foils and fabrics. It bonds gaskets in water pumps and attaches insulation to sheet metal. It attaches wiring diagrams and labels. It is a very versatile adhesive.

Ordering Information for 3M Spray Adhesives

| Product Number | UPC (021200-) | Description | Can Size | Minimum Order Case Qty. |
|-----------------------|----------------------|--------------------|---------------------|--------------------------------|
| Super 77 | 21210 | Spray Adhesive | 24 fl. oz. (710 ml) | 12 |

3M Super 77 Multipurpose Spray Adhesive

Technical Data

Product Description

3M™ Super 77 Multipurpose Spray Adhesive is a high tack, high coverage, fast drying, translucent adhesive for permanently attaching foils, carpeting, many lightweight foams, paper, plastics, cardboard, felt and cloth to painted or unpainted metals, wood, hardboard and other base materials.

Features

- Convenient
- Low mist
- Fast, easy application
- High coverage
- Aggressive tack
- Long bonding range
- Excellent spray control
- Uniform spray coat
- High initial “grab” with sufficient open time to allow for positioning of materials.

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

| | |
|--|---|
| Solids Content (by wt.): | ~ 25% |
| Base: | Synthetic Elastomers |
| Color (wet and dry): | Translucent |
| Net Weight* (approx.): | 16.75 oz. (475 gms.) |
| Spray Pattern: | Low Mist, Fine Particle Spray |
| Spray Width: | 4 1/2" - 6" |
| Bonding Range (1 Surface) (2 Surface): (Extra Strong Bonds) | 10 seconds - 15 minutes 10 seconds - 30 minutes Spray both surfaces - allow a minimum of 30 seconds drying time |
| Solvents: | Acetone, Heptane, Cyclohexane |
| Flash Point: | -42°F (-42°C) |
| Coverage* @ .5 gm/sq. ft.: | > 220 sq. ft. |
| % Volatile Organic Components (VOC): | 51% |
| Hazardous Air Pollutants (HAPS): | None |

3M™ Super 77

Multipurpose Spray Adhesive

Application/Handling Information

Directions for Use

- 1. Surface Preparation:** Surfaces must be clean, dry and free from dirt, dust, oil, loose paint, wax or grease, etc.
- 2. Application Temperature:** For best results the temperature of the adhesive and the surfaces being bonded should be at least 65°F (18°C).
- 3. Application:**
 - Shake can well.
 - Turn spray tip so arrow points to dot on rim. (**Note:** Always point spray tip away from yourself and others.)
 - Hold can 6-8 inches from surface to be sprayed.
 - Make bond while adhesive is aggressively tacky.
 - After use, invert can, depress spray tip until spray is free of adhesive.
 - Clean spray tip with turpentine.*
- 4. Bonding Range:**
 - 1 surface - 10 seconds to 15 minutes
 - 2 surface - 10 seconds to 30 minutes
 - Extra Strong Bonds – Spray both surfaces and allow a minimum of 30 seconds drying time.
- 5. Cleanup:** Excess adhesive may be removed with 3M™ Adhesive Remover Citrus Base.*

*When using solvents, extinguish all ignition sources, including pilot lights, and follow the manufacturer's precautions and directions for use.

Storage

Store product at 60-80°F (16-27°C) for maximum storage life. Higher temperatures can reduce normal storage life. Lower temperatures can cause increased viscosity of a temporary nature. Rotate stock on a "first in-first out" basis.

Shelf Life

When stored at the recommended conditions in the original, unopened container this product has a shelf life of 15 months from date of shipment.

3M™ Super 77

Multipurpose Spray Adhesive

Precautionary Information

Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product.

Product Use

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors 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 the user's method of application.

Warranty and Limited Remedy

Unless stated otherwise in 3M's product literature, packaging inserts or product packaging for individual products, 3M warrants that each 3M product meets the applicable specifications at the time 3M ships the product. Individual products may have additional or different warranties as stated on product literature, package inserts or product packages. 3M MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's application. If the 3M product is defective within the warranty period, your exclusive remedy and 3M's and seller's sole obligation will be, at 3M's option, to replace the product or refund the purchase price.

Limitation of Liability

Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



Industrial Business Industrial Adhesives and Tapes Division

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Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Super 77(TM) Multipurpose Adhesive (Aerosol)

MANUFACTURER: 3M

DIVISION: Industrial Adhesives and Tapes Division

ADDRESS: 3M Center
St. Paul, MN 55144-1000

Issue Date: 07/01/2008

Supersedes Date: 04/10/2007

Document Group: 16-3472-4

Product Use:

Intended Use: general purpose aerosol adhesive
Specific Use: General Purpose Aerosol adhesive

SECTION 2: INGREDIENTS

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|--|-------------------|----------------|
| NON-VOLATILE COMPONENTS - N.J. TRADE SECRET REGISTRY NO. 04499600-6433P | Trade Secret | 20 - 30 |
| ACETONE | 67-64-1 | 20 - 30 |
| PROPANE | 74-98-6 | 15 - 25 |
| 2-METHYLPENTANE | 107-83-5 | 10 - 20 |
| CYCLOHEXANE | 110-82-7 | 3 - 7 |
| 3-METHYLPENTANE | 96-14-0 | 3 - 7 |
| 2,2-DIMETHYLBUTANE | 75-83-2 | 1 - 3 |
| 2,3-DIMETHYLBUTANE | 79-29-8 | 1 - 3 |
| HEXANE | 110-54-3 | < 0.8 |

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Specific Physical Form: Aerosol

Odor, Color, Grade: clear, sweet fruity odor

General Physical Form: Gas aerosol

| <u>Ingredient</u> | <u>Authority</u> | <u>Type</u> | <u>Limit</u> | <u>Additional Information</u> |
|--------------------------------------|------------------|---------------|--------------|-------------------------------|
| ACETONE | ACGIH | TWA | 500 ppm | Table A4 |
| ACETONE | ACGIH | STEL | 750 ppm | Table A4 |
| ACETONE | OSHA | TWA, Vacated | 750 ppm | |
| ACETONE | OSHA | TWA | 1000 ppm | Table Z-1 |
| ACETONE | OSHA | STEL, Vacated | 1000 ppm | |
| CYCLOHEXANE | ACGIH | TWA | 100 ppm | |
| CYCLOHEXANE | OSHA | TWA | 300 ppm | Table Z-1 |
| HEXANE | ACGIH | TWA | 50 ppm | Skin Notation* |
| HEXANE | OSHA | TWA, Vacated | 50 ppm | Table Z-1A |
| HEXANE | OSHA | TWA | 500 ppm | Table Z-1A |
| HEXANE (ISOMERS OTHER THAN N-HEXANE) | ACGIH | TWA | 500 ppm | |
| HEXANE (ISOMERS OTHER THAN N-HEXANE) | ACGIH | STEL | 1000 ppm | |
| PROPANE | ACGIH | TWA | 1000 ppm | |
| PROPANE | OSHA | TWA | 1000 ppm | Table Z-1 |

* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local regulatory agency.

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)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|--|
| Specific Physical Form: | Aerosol |
| Odor, Color, Grade: | clear, sweet fruity odor |
| General Physical Form: | Gas aerosol |
| Autoignition temperature | <i>No Data Available</i> |
| Flash Point | -42.00 °F [<i>Test Method:</i> Tagliabue Closed Cup] |
| Flammable Limits - LEL | <i>No Data Available</i> |
| Flammable Limits - UEL | <i>No Data Available</i> |
| Boiling point | <i>Not Applicable</i> |
| Vapor Density | 2.97 [<i>Ref Std:</i> AIR=1] |
| Specific Gravity | 0.726 [<i>Ref Std:</i> WATER=1] |
| pH | <i>No Data Available</i> |
| Melting point | <i>No Data Available</i> |
| Solubility in Water | Nil |
| Evaporation rate | 1.90 [<i>Ref Std:</i> ETHER=1] |
| Hazardous Air Pollutants | 0.4 % weight [<i>Test Method:</i> Calculated] |
| Hazardous Air Pollutants | 0.016 lb HAPS/lb solids |
| Hazardous Air Pollutants | 0.02 lb HAPS/gal [<i>Test Method:</i> Calculated] |
| Volatile Organic Compounds | Approximately 51 % [<i>Test Method:</i> calculated SCAQMD rule] |

| | |
|--------------------------------|-----------------------|
| Percent volatile | 443.1] |
| VOC Less H2O & Exempt Solvents | <=75 % weight |
| Viscosity | 468 g/l |
| | <i>Not Applicable</i> |

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid: Heat

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u> |
|------------------|-------------------|
| Aldehydes | During Combustion |
| Carbon monoxide | During Combustion |
| Carbon dioxide | 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 uncured product in a permitted hazardous waste incinerator. 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.

Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

RECYCLE EMPTY AEROSOL CONTAINERS WHERE AVAILABLE.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)