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MATERIAL SAFETY DATA SHEET
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Document ID : 16-4935-9 Issue date : 08/12/2006
Version : 2.00 Supersedes date : 25/11/2003
Document status : Issued

This MSDS has been prepared by 3M Australia Pty Ltd Toxicology Dept.

1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
3M(TM) HI-STRENGTH SPRAY ADHESIVE 90 (AEROSOL)

DIVISION
AD - INDUSTRIAL ADHESIVES AND TAPES

3M Product ID
62-4942-0926-5, CS-0406-7111-0, 62-4942-4925-3, 62-4942-4928-7,
62-4942-4930-3, 62-4942-4935-2, 62-4942-4938-6

RECOMMENDED USE: Aerosol adhesive

2 HAZARDS IDENTIFICATION

NOTE: HAZARDOUS SUBSTANCE. DANGEROUS GOODS

POISONS SCHEDULE Not applicable.

Symbols
F+ (Extremely Flammable) Xi (Irritant) N (Dangerous to Environment)

Risk Codes and Phrases
R12 Extremely flammable.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety Codes and Phrases

- S15 Keep away from heat.
- S23C Do not breathe vapour or spray.
- S51 Use only in well ventilated areas.
- S24/25 Avoid contact with the skin and eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S28B After contact with skin, wash immediately with plenty of water.
- S61 Avoid release to the environment.
- S2 Keep out of the reach of children.

3 COMPOSITION

Ingredient Name	CAS number	Percentage
DIMETHYL ETHER	115-10-6	35 - 45
METHYL ACETATE	79-20-9	25 - 35
NON-VOLATILE COMPONENTS	---	10 - 20
CYCLOHEXANE	110-82-7	7 - 13
1,1-DIFLUOROETHANE	75-37-6	1 - 5
PENTANE	109-66-0	1 - 5

4 FIRST AID MEASURES

EYE CONTACT

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

SKIN CONTACT

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

INHALATION

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

IF SWALLOWED

Give person two glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention.

5 FIRE FIGHTING MEASURES

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.

FIRE FIGHTING PROCEDURES

Wear full protective equipment (Turnout Gear) and a self-contained breathing apparatus (SCBA).

Combustion Products from Fire

Combustion Products from Fire are listed in Section 10, STABILITY AND REACTIVITY.

6 ACCIDENTAL RELEASE MEASURES (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 area with fresh air. Place leaking container in ventilation hood, Close cylinder. If the cylinder can't be closed, place in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Precautions for Safe Handling

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.

Conditions for Safe Storage

Refer to Incompatibility - Materials to Avoid.

Incompatibility - Materials to Avoid

Store away from acids. Store away from heat. Store out of direct sunlight.

EXPLOSION AVOIDANCE

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

Fire Avoidance

Extremely flammable liquid and vapour.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

DIMETHYL ETHER (115-10-6)

NATIONAL EXPOSURE STANDARDS: TWA 400ppm 760mg/m3

STEL 500ppm 950mg/m3

METHYL ACETATE (79-20-9)

NATIONAL EXPOSURE STANDARDS: TWA 200ppm STEL 250ppm

CYCLOHEXANE (110-82-7)

NATIONAL EXPOSURE STANDARDS: TWA 100ppm 350mg/m3

STEL 300ppm 1050mg/m3

PENTANE (109-66-0)

NATIONAL EXPOSURE STANDARDS: TWA 600ppm 1770mg/m3

STEL 750ppm 2210mg/m3

Special Information, Exposure/Protection

The extent to which the following recommendations for exposure control and protection are observed should depend on the risk assessment undertaken for the specific conditions under which this product is used, including occupational hygiene measurements.

Recommended Ventilation

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.

Eye Protection

Avoid eye contact. Avoid eye contact with vapour, spray, or mist. During operations in which eye exposure is likely, the following should be worn alone, or in combination, as

appropriate: Safety glasses with side shields. Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

Hand Protection

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

Gloves not normally required. Avoid skin contact. Avoid prolonged or repeated skin contact.

Respiratory Protection

Avoid breathing 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 vapour filters. Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance specifications. For information about respirators, call 3M on 1800 024 464.

Prevention of Accidental Ingestion

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

9 PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odour	Clear, sweet fruity odour liquid in aerosol
pH	Not determined
Boiling point	Not applicable
Melting point	Not applicable
Flash point	-41.11 C TCC
Autoignition temperature	Not determined
Vapour pressure	CONDITIONS: Compressed gas

Water Solubility	NIL
Specific gravity	0.726
Vapour density	2.97 (Air=1)
Volatile organic compounds (VOC) content	54 %
Evaporation rate	1.9 (Ether=1)
Viscosity	Not applicable
Flammable Limits - LEL	Not determined
Flammable Limits - UEL	Not determined
Percent Volatile	<= 75 % by wt

10 STABILITY AND REACTIVITY

Stability

Hazardous polymerisation will not occur. Stable.

Materials to Avoid

Heat.

Hazardous Decomposition Products

Carbon monoxide during combustion. Carbon dioxide during combustion. Irritant vapours or gases during combustion.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact

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

Effects from Skin Contact

May be absorbed through skin and cause target organ effects. Prolonged or repeated exposure may cause: Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

Effects from Inhalation

May be absorbed following inhalation and cause target organ

effects. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Intentional concentration and inhalation maybe harmful or fatal.

Effects from Ingestion

May be absorbed following ingestion and cause target organ effects. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Other Toxicological Information

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, uncoordination, 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.

Kidney Effects: Signs/symptoms may include urine production, lower back pain, increased protein in urine, and increased blood urea nitrogen (BUN), blood in urine, painful urination.

12 ECOLOGICAL INFORMATION

Ecofate Data
Not determined.

13 DISPOSAL CONSIDERATIONS

Product as Sold

Incinerate in a permitted hazardous waste incinerator.
Incinerate at a facility equipped to handle gaseous waste.
Recycle empty aerosol containers where available.

Methods for Disposal

Discharge the resulting residue containing solution to a municipal or industrial wastewater treatment facility.

14 TRANSPORT INFORMATION

ADG (Road/Rail)

UN NUMBER	UN 1950
PROPER SHIPPING NAME	AEROSOLS
DANGEROUS GOODS CLASS	2.1
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

IATA (Airfreight)

UN NUMBER	UN 1950
PROPER SHIPPING NAME	AEROSOLS, FLAMMABLE
DANGEROUS GOODS CLASS	2.1
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

IMO (Seafreight)

UN NUMBER	UN 1950
PROPER SHIPPING NAME	AEROSOLS, FLAMMABLE
DANGEROUS GOODS CLASS	2.1
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED
SPECIAL INSTRUCTIONS:	IERG 49 LIMITED QUANTITY BY SEA

15 REGULATORY INFORMATION

Product Certifications
AICS - Yes: components checked

16 OTHER INFORMATION

REASON FOR REISSUE

The MSDS has been revised because 3M has adopted the National Code of Practice [NOHSC:2011(2003)]format. The potential hazards of the product have not changed. We encourage you to reread the MSDS and review the information.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Snr Regulatory Services Officer on (02)9498-9287.

