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MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M(TM)SPRAY ADHESIVE 08090 (UK 9480)

3M Product ID:
GS-2000-3148-1 GS-2000-3147-3 GS-2000-3146-5

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
DIMETHYL ETHER PROPELLANT	115-10-6	20 - 30
EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (F+; R:12)		
CYCLOHEXANE	110-82-7	15 - 20
EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (F,N,Xi,Xn; R:11-38-50-53-65-67)		
PENTANE	109-66-0	15 - 20
EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (F+,N,Xn; R:12-51-53-65-66-67)		
ACETONE	67-64-1	15 - 20
EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (F,Xi; R:11-36-66-67)		
TOLUENE	108-88-3	3 - 7
EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (F,Xn; R:11-20)		
P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN	25085-50-1	Less Than 5
CHLOROPRENE-METHACRYLIC ACID COPOLYMER	25053-30-9	Less Than 5
CHLOROPRENE-SULPHUR POLYMER	37450-42-3	Less Than 3
POLYCHLOROPRENE	9010-98-4	Less Than 3

Regulatory Lists:: IARC-NON

25068-38-6 Less Than 1
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN
POLYMER

EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (N,Xi;
R:36-38-43-51-53)

DISULFIRAM 97-77-8 Less Than 0.25

EU Hazard Symbols and Risk Phrases: EU - Adaptation 24
(Xn,Xi,N; R:22-43-48/22-50-53)

TALC 14807-96-6 Less Than 0.1

Regulatory Lists:: IARC(Group 1) - Category: TALC CONTAINING
ASBESTIFORM FIBERS IARC(Group 1)
N,N-DIMETHYLANILINE 121-69-7 0 - 0.1

EU Hazard Symbols and Risk Phrases: EU - Adaptation 22 (N,T;
R:23-24-25-Carc.Cat.3;40-51-53)

3 HAZARDS IDENTIFICATION

Critical hazards:

Extremely Flammable. Irritant. Dangerous to environment.
Irritating to eyes and skin. Vapours may cause drowsiness and
dizziness. Toxic to aquatic organisms. May cause long-term
adverse effects in the aquatic environment. CONTAINS
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER. CONTAINS
DISULFIRAM. May produce an allergic reaction.

4 FIRST-AID MEASURES

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. Wash contaminated clothing and
shoes before reuse. If signs/symptoms develop, get medical
attention.

Inhalation:

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

Ingestion:

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

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.

Hazardous Decomposition:

Hydrocarbons, Formaldehyde, Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures:

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Store at temperatures below 49 C.

Incompatible Materials/Conditions:

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

Fire Prevention:

Extremely flammable liquid and vapour. Do not spray near flames or sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material.

Explosion Prevention:

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

Static Prevention:

Avoid static discharge.

Precautions for Safe Handling:

Keep container tightly closed. Avoid contact with oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact. Avoid eye contact with vapours, mists, or spray. Avoid eye contact with vapours, mists, or spray. The following should be worn alone or in combination, as appropriate or in combination, to prevent eye contact: Indirect vented goggles.

Hand Protection:

The following glove material(s) are recommended: Polyethylene/ethylene vinyl alcohol.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid breathing of vapours created during the cure cycle. Avoid inhalation of vapours, mists or spray. Avoid breathing of vapours created during the cure cycle. Avoid inhalation 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 supplied-air respirator.

Ingestion:

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. 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. Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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. If exhaust ventilation is not available, use appropriate respiratory protection.

Exposure Limits:

DIMETHYL ETHER PROPELLANT (115-10-6)
UK HSE TWA: 400 ppm, 766 mg/m³

DIMETHYL ETHER PROPELLANT (115-10-6)
UK HSE STEL: 500 ppm, 958 mg/m³
DIMETHYL ETHER PROPELLANT (115-10-6)
CMRG TWA Exposure Limit: 1000 ppm
CYCLOHEXANE (110-82-7)
UK HSE TWA: 100 ppm; 350 mg/m³ OES

CYCLOHEXANE (110-82-7)
UK HSE STEL: 300 ppm; 1050 mg/m³ OES

PENTANE (109-66-0)
UK HSE TWA: 600 ppm; 1800 mg/m³ OES
PENTANE (109-66-0)
UK HSE STEL: 750 ppm; 2250 mg/m³ OES
ACETONE (67-64-1)
UK HSE TWA: 500 ppm; 1210 mg/m³ OES
ACETONE (67-64-1)
UK HSE STEL: 1500 ppm; 3620 mg/m³ OES
TOLUENE (108-88-3)
UK HSE TWA: 50 ppm; 191 mg/m³ skin OES
TOLUENE (108-88-3)
UK HSE STEL: 150 ppm; 574 mg/m³ skin OES
TALC (14807-96-6)
UK HSE TWA: 1 mg/m³ Respirable dust OES
N,N-DIMETHYLANILINE (121-69-7)
UK HSE TWA: 5 ppm; 25 mg/m³ skin OES
N,N-DIMETHYLANILINE (121-69-7)
UK HSE STEL: 10 ppm; 50 mg/m³ skin OES

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Liquid in an aerosol container
with a solvent odour.

pH: Not applicable

Boiling point/boiling range: Not applicable

Melting point/melting range: Not determined

Flash point: -42 C

Autoflammability: Not determined

Vapour pressure: Not determined

Water Solubility: Not determined

Specific gravity: 0.798

Vapour density: Not determined

Volatile organic compounds: 675.48 g/l

Evaporation rate:	Not determined
Viscosity:	Not determined
Percent Volatile:	80 - 90 %

10 STABILITY AND REACTIVITY

Conditions to Avoid:
Heat.

Materials to Avoid:
Not applicable.

Hazardous Decomposition:
Stable. Hazardous polymerisation 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:

May be absorbed through skin and cause target organ effects.
Mild Skin Irritation: signs/symptoms may include localised redness, swelling, and itching. Prolonged or repeated exposure may cause: Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, 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 may be harmful or fatal. Single exposure, above recommended guidelines, may cause: Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal.

Effects from Ingestion:

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

Reproductive Effects:

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

Other Effects and Information:

Prolonged or repeated exposure may cause: 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. 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). Central Neuropathy: Signs/symptoms may include irritability, memory impairment, personality changes, sleep disorders, and decreased ability to concentrate.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

13 DISPOSAL CONSIDERATIONS

Product after Use:

Do not puncture or burn cans in a household incinerator.

Special Instructions:

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

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN1950

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN1950

Class: 2.0

Packing Group: Not applicable

Proper Shipping Name: Aerosols

CDG-ROAD (if applicable) Not applicable

ADR/RID CLASSIFICATION:

Class: 2.0

Item Number: 5 f

ICAO/IATA CLASSIFICATION:

Class: CLASS 2.1

Sub-Risk: Not applicable

Packing Group: Not applicable

Proper Shipping Name: Aerosols, flammable

15 REGULATORY INFORMATION

Symbol(s):

(F+) Flame (Extremely Flammable). (Xi) St. Andrew's Cross (Irritant). (N) Dangerous to environment.

Risk Phrases:

(R12) Extremely flammable. (R36/38) Irritating to eyes and skin. (R67) Vapours may cause drowsiness and dizziness. (R51/53) Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment. (R3109) CONTAINS 4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER. CONTAINS DISULFIRAM. (R1100) May produce an allergic reaction.

Safety Phrases:

Keep away from heat. Keep away from sources of ignition including pilot lights and sparks. No smoking. Do not breathe vapour or spray. Use only in well ventilated areas. Avoid

contact with the skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of soap and water. WARNING! Pressurised container. Protect from sunlight and do not expose to temperatures exceeding 50 degrees C. Do not pierce or burn, even after use. Do not spray on a naked flame or incandescent material. Avoid release to the environment. Refer to special instructions/safety data sheets. Contains Epoxy Resins. See information supplied by manufacturer. Keep out of the reach of children.

16 OTHER INFORMATION

Regulatory Information: The following UK Regulations as amended may affect the product as supplied: The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and use of Transportable Pressure Receptacles Regulations 1996, as amended. Carriage of Dangerous Goods by Road regulations, 1996, as amended. The Petroleum (Consolidation) Act 1928. The Control of Substances Hazardous to Health Regulations 1999 as amended.

The Special Waste Regulations 1996, as amended. The Environmental Protection Act, 1990 The Health and Safety at Work Act, 1974.

Reissue date/Reason for reissue.
Updated ingredients, first aid, fire fighting, handling, exposure, physical properties, toxicological and label information.

Intended Use of Product:
An aerosol adhesive for general purpose bonding.

The information on this Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these

reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.