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Kit MSDS
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Dear Customer,
This is the cover sheet for the KIT MSDS.

You will find the document numbers of the MSDS that belong to the kit here on this page.

1 INFORMATION REGARDING KIT

1.1 Tradename:

3M Automix EZ Fix Flexible Patch 05888

1.2 Intended Use of Product:

1.3 3M Product ID:

FS-9100-4254-8

1.4 Contact Address:

3M UK PLC 3M Ireland
3M Centre, Cain Road, 3M House, Adelphi Centre,
Bracknell, Berkshire, RG12 8HT Dun Laoghaire, Co. Dublin

1.5 Emergency Contact Number:

+44 (0)1344 858 000

1.6 Kit Components:

19-6313-1 3M Automix 06396 Patch Adhesion Promoter
20-7920-0 3M Automix EZ Fix Flexible Patch

2 KIT LABEL

Label Version Number:

02.00

Symbol(s):

F Highly flammable. Xn Harmful. N
Dangerous to environment.

Risk Phrases:

R11 Highly flammable. R38 Irritating to skin.
R20/21 Harmful by inhalation and in contact with skin. R65
Harmful: May cause lung damage if swallowed. R50/53
Very toxic to aquatic organisms. May cause long-term
adverse effects in the aquatic environment. 3M
Contains epoxy resin (reaction product bisphenol A-
epichlorhydrin, MW<700). 3M May produce an
allergic reaction.

Safety Phrases:

S16 Keep away from sources of ignition - No Smoking. S51
Use only in well ventilated areas. S23A Do not
breathe vapour. S24/25 Avoid contact with the skin and
eyes. S36/37 Wear suitable protective clothing and gloves.

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. S46 If swallowed, seek medical advice immediately and show this container or label. S29 Do not empty into drains. S61 Avoid release to the environment. Refer to special instructions/safety data sheets. 3M Contains epoxy resins. See information supplied by manufacturer. S2 Keep out of the reach of children.

R38; R67
EU Nota: 4, 6

3 HAZARDS IDENTIFICATION

Risk Phrases:

- R11 Highly Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R65 Harmful: May cause lung damage if swallowed.
R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
- 3M Contains epoxy resin (reaction product bisphenol A-epichlorhydrin, MW<700).
3M May produce an allergic reaction.

4 FIRST-AID MEASURES

4.1 Eye Contact:

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

4.2 Skin Contact:

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

4.3 Inhalation:

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

4.4 Ingestion:

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

5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

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

5.2 Unsuitable Extinguishing Media:

Not specified.

5.3 Exposure Hazards:

Vapours may travel long distances along the ground or floor to an ignition source and flash back.

5.4 Combustion Products from Fire:

Not determined.

5.5 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. Wear full protective equipment and a self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

Refer to other sections of this Material Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2 Methods for Cleaning up:

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep container tightly closed. Avoid inhalation of vapours, mists or spray. For industrial or professional use only. Avoid contact with oxidising agents.

- Fire Prevention:

Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

- Explosion Prevention:

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

- Static Prevention:

Avoid static discharge.

7.2 Precautions for Safe Storage:

- Ventilation:

Keep container in a well-ventilated area.

- Incompatible Materials/Conditions:

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Recommended Ventilation:

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.

8.2 Exposure Limits:

Cyclohexane (110-82-7)

- HSE WEL TWA: 100 ppm; 350 mg/m³
- HSE WEL STEL: 300 ppm; 1050 mg/m³

Xylene (1330-20-7)

- HSE WEL TWA: 50 ppm; 220 mg/m³ (skin)
- HSE WEL STEL: 100 ppm; 441 mg/m³ (skin)

Ethanol (64-17-5)

- HSE WEL TWA: 1000 ppm; 1920 mg/m³

Ethylbenzene (100-41-4)

- HSE WEL TWA: 100 ppm; 441 mg/m³ (skin)
- HSE WEL STEL: 125 ppm; 552 mg/m³ (skin)

Ethyl Acetate (141-78-6)

- HSE WEL TWA: 200 ppm
- HSE WEL STEL: 400 ppm

Toluene (108-88-3)

- HSE WEL TWA: 50 ppm; 191 mg/m³ (skin)
- HSE WEL STEL: 150 ppm; 574 mg/m³ (skin)

8.3 Exposure Controls:

8.3.1 Eye Protection:

Avoid eye contact. The following should be worn alone or in combination, as appropriate to prevent eye contact: Safety glasses with side shields.

8.3.2 Hand Protection:

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

8.3.3 Skin Protection:

Avoid skin contact.

8.3.4 Respiratory Protection:

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 face piece or full face air-purifying respirator with organic vapour cartridges.

8.3.5 Ingestion:

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

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour: Sponge holding approximately 2 milliliters of yellow liquid with solvent odour.
- pH: Not applicable
- Boiling point/boiling range: ≥ 76.67 °C (estimated) (initial)
- Melting point/melting range: Not applicable
- Flash point: 1.11 °C (Setaflash)
- Autoflammability: 430 °C
- Flammable Limits - LEL: 1 % (estimated)
- Flammable Limits - UEL: 6 % (estimated)
- Vapour pressure: 16265 Pa (at 20 °C)
- Water Solubility: 10 %
- Specific gravity: 0.82 (Water=1)
- Vapour density: 1.7 (Air=1) (estimated)
- Volatile organic compounds: 668 g/l (SCAQMD)

- Evaporation rate: 6.4 (Xylene=1) (estimated)
- Viscosity: 30 - 40 mPa.s
- Percent Volatile: 94 %

10 STABILITY AND REACTIVITY

10.1 Stability and Reactivity:

Hazardous polymerisation will not occur. Stable.

10.2 Conditions to Avoid:

Heat.
Sparks and/or Flames.

10.3 Materials to Avoid:

None known.

10.4 Hazardous Decomposition:

Carbon monoxide - During Combustion.
Carbon dioxide - During Combustion.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:

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

11.2 Effects from Skin Contact:

- May be absorbed through skin and cause target organ effects.
- Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.
- Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

11.3 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.

11.4 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.
- Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal.

11.5 Other Effects and 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:

- 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).

- Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.
- Reproductive Effects:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

12 ECOLOGICAL INFORMATION

12.1 Environmental Data:
Not determined.

12.2 Mobility in Soil and Water:
Not determined.

12.3 Persistence/Biodegradability:
Not determined.

12.4 Bioaccumulation Potential:
Not determined.

12.5 Ecotoxicity Data:
Not determined.

12.6 Ecofate Data:
Not determined.

12.7 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.

12.8 Other Effects and Information:
Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimised to the extent possible.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:
Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

13.2 Product in Use:
Not determined.

13.3 Product after Use:
Not determined.

13.4 Product Packaging:
Not determined.

13.5 Potential for Recycling:
Not determined.

13.6 Special Instructions:

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: Not restricted for transportation.

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: Not restricted for transportation by sea - special provision 216 fulfilled.

Class:

Packing Group:

Proper Shipping Name:

ADR/RID CLASSIFICATION:

Class: Not restricted for transportation by road - special provision 216 fulfilled.

ADR classification:

ICAO/IATA CLASSIFICATION:

Class: Not restricted for transportation by air - special provision 216 fulfilled.

Sub-Risk:

Packing Group:

Proper Shipping Name:

15 REGULATORY INFORMATION

Symbol(s):

F Highly Flammable.
Xn Harmful.
N Dangerous to environment.

Risk Phrases:

R11 Highly Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R65 Harmful: May cause lung damage if swallowed.
R50/53 Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

3M Contains epoxy resin (reaction product bisphenol A-epichlorhydrin, MW<700).
3M May produce an allergic reaction.

Safety Phrases:

S16 Keep away from sources of ignition - No Smoking.

- S51 Use only in well ventilated areas.
- S23A Do not breathe vapour.
- S24/25 Avoid contact with the skin and eyes.
- S36/37 Wear suitable protective clothing and gloves.
- 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.
- S46 If swallowed, seek medical advice immediately and show this container or label.
- S29 Do not empty into drains.
- S61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- 3M Contains Epoxy Resins. See information supplied by manufacturer.
- S2 Keep out of the reach of children.

Disclosable Ingredients:

Cyclohexane;
Xylene.

Product Certifications:

EINECS.

16 OTHER INFORMATION

16.1 Complete list of risk phrases:

- R10 Flammable.
- R11 Highly Flammable.
- R20 Harmful by inhalation.
- R21 Harmful in contact with skin.
- R36 Irritating to eyes.
- R38 Irritating to skin.
- R43 May cause sensitisation by skin contact.
- R48 Danger of serious damage to health by prolonged exposure through inhalation.
- R50 Very toxic to aquatic organisms.
- R51 Toxic to aquatic organisms.
- R53 May cause long-term adverse effects in the aquatic environment.
- R63 Possible risk of harm to the unborn child.
- R65 Harmful: May cause lung damage if swallowed.
- R66 Repeated exposure may cause skin dryness or cracking.
- R67 Vapours may cause drowsiness and dizziness.
- 3M May produce an allergic reaction.
- 3M Contains epoxy resin (reaction product bisphenol A-epichlorhydrin, MW<700).

16.2 Ingredients on the European Detergents Directive 2004/648/CE:
Not applicable.

16.3 Limitations on Use of Product:
For industrial or professional use only.

16.4 Reissue date/Reason for reissue:
Complete MSDS revision in accordance with EU directive 2001/58/EC.

16.5 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;
The Control of Substances Hazardous to Health Regulations 1999 as
amended;
The Special Waste Regulations 1996, as amended;
The Environmental Protection Act, 1990, as amended;
The Health and Safety at Work Act, 1974, as amended.

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.

dry chemical, carbon dioxide).

5.2 Unsuitable Extinguishing Media:

Not specified.

5.3 Exposure Hazards:

No unusual fire or explosion hazards are anticipated.

5.4 Combustion Products from Fire:

Not determined.

5.5 Fire-Fighting Procedures:

Wear full protective equipment and a self-contained breathing apparatus.

5.6 Special Instructions:

Not applicable.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

Please observe precautions from other sections of this MSDS.

6.2 Methods for Cleaning up:

Please observe precautions from other sections of this MSDS.

7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 Precautions for Safe Storage:

Not specified.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Recommended Ventilation:

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.

8.2 Exposure Limits:

None of the substances in the section 2 ingredient list are listed in the EH40 Exposure Limit Inventory.

8.3 Exposure Controls:

8.3.1 Eye Protection:

Not applicable.

8.3.2 Hand Protection:

Not applicable.

8.3.3 Skin Protection:

8.3.4 Respiratory Protection:

Not applicable.

8.3.5 Ingestion:

Not applicable.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour: Brownish/Black patch with acrylate odour.
- pH: Not applicable
- Boiling point/boiling range: Not applicable
- Melting point/melting range: Not applicable
- Flash point: Not applicable
- Autoflammability: Not applicable
- Flammable Limits - LEL: Not applicable
- Flammable Limits - UEL: Not applicable
- Vapour pressure: Not applicable
- Water Solubility: Nil
- Specific gravity: Not applicable
- Vapour density: Not applicable
- Evaporation rate: Not applicable
- Viscosity: Not applicable
- Percent Volatile: Not applicable

10 STABILITY AND REACTIVITY

10.1 Stability and Reactivity:

Hazardous polymerisation will not occur. Stable.

10.2 Conditions to Avoid:

None known.

10.3 Materials to Avoid:

None known.

10.4 Hazardous Decomposition:

Oxides of Nitrogen.

Carbon monoxide - With oxidation, heat or reaction.

Carbon dioxide - With oxidation, heat or reaction.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:

No health effects are expected.

11.2 Effects from Skin Contact:

No health effects are expected.

11.3 Effects from Inhalation:

No adverse health effects are expected.

11.4 Effects from Ingestion:
No health effects are expected.

11.5 Other Effects and Information:
This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

12 ECOLOGICAL INFORMATION

12.1 Environmental Data:
Not determined.

12.2 Mobility in Soil and Water:
Not determined.

12.3 Persistence/Biodegradability:
Not determined.

12.4 Bioaccumulation Potential:
Not determined.

12.5 Ecotoxicity Data:
Not applicable.

12.6 Ecofate Data:
Not applicable.

12.7 Special statements for 2001/58/EC:
Not determined.

12.8 Other Effects and Information:
The environmental properties of this product present a low environmental hazard.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:
As a disposal alternative, incinerate in an industrial or commercial facility.

13.2 Product in Use:
Not determined.

13.3 Product after Use:
Not determined.

13.4 Product Packaging:
Not determined.

13.5 Potential for Recycling:
Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

13.6 Special Instructions:

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: Not restricted for
transportation.

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number:

Class:

Packing Group:

Proper Shipping Name:

ADR/RID CLASSIFICATION:

Class:

ADR classification:

ICAO/IATA CLASSIFICATION:

Class:

Sub-Risk:

Packing Group:

Proper Shipping Name:

15 REGULATORY INFORMATION

Symbol(s):

None.

Risk Phrases:

Safety Phrases:

None.

Disclosable Ingredients:

No ingredients required on the label.

16 OTHER INFORMATION

16.1 Complete list of risk phrases:

None.

16.2 Ingredients on the European Detergents Directive 2004/648/CE:

Not applicable.

16.3 Limitations on Use of Product:

For general use.

16.4 Reissue date/Reason for reissue:

Complete MSDS revision in accordance with EU directive
2001/58/EC.

16.5 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;
The Control of Substances Hazardous to Health Regulations 1999 as
amended;
The Special Waste Regulations 1996, as amended;
The Environmental Protection Act, 1990, as amended;
The Health and Safety at Work Act, 1974, as amended.

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