Kit MSDS

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(TM) ESPE(TM) POSITION PENTA(TM) QUICK

- 1.2 Intended Use of Product:
- 1.3 3M Product ID:

70-2011-1314-2, 70-2011-2058-4, 70-2011-2059-2

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:

16-2836-1 Position Penta Quick Base 16-2837-9 Position Penta Quick Catalyst.

2 KIT LABEL

MATERIAL SAFETY DATA SHEET ______

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

http://multimedia.3m.com/mws/mediawebserver?mwsId=SSSSSuUn zu8lzNv482v5xme... 14/12/2010

1.1 Tradename: Position Penta Quick Base

1.2 Intended Use of Product: Impressions.

1.3 3M Product ID:

1.4 Contact Address:

3M UK PLC

3M Centre, Cain Road,

Bracknell, Berkshire, RG12 8HT

3M Ireland

3M House, Adelphi Centre, Dun Laoghaire, Co. Dublin

1.5 Emergency Contact Number: +44 (0)1344 858 000

2 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name and classification | CAS number | Percentage |
|------------------------------------|------------|------------|
| Quartz EU Number: EINECS 238-878-4 | 14808-60-7 | 40 - 50 |
| Vendor Classification: Xn: R48/20 | | |
| Poly(dimethylsiloxane) | 63148-62-9 | 10 - 20 |
| Siloxanes and silicones, Di-Me, | 68083-19-2 | 10 - 20 |
| vinyl group-terminated | | |
| Dimethyl siloxane, reaction | 67762-90-7 | 10 - 20 |
| product with silica | | |
| Kieselguhr, soda ash flux-calcined | 68855-54-9 | 1 - 10 |
| EU Number: EINECS 272-489-0 | | |
| Dimethyl methyl hydrogen silicone | 68037-59-2 | 1 - 10 |
| fluid | | |

3 HAZARDS IDENTIFICATION

Risk Phrases:

None.

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:

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

4.3 Inhalation:

No need for first aid is anticipated.

4.4 Ingestion:

No need for first aid is anticipated.

5 FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media: Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g. water, foam).
- 5.2 Unsuitable Extinguishing Media: Not specified.
- 5.3 Exposure Hazards: Not determined.
- 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: Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Collect as much of the spilled material as possible. Clean up residue. Place in a closed container approved for transportation by

appropriate authorities.

Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid eye contact. Avoid prolonged or repeated skin contact.

- 7.2 Precautions for Safe Storage:
- Incompatible Materials/Conditions: Store away from heat. Store out of direct sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Recommended Ventilation: Not applicable.
- 8.2 Exposure Limits:

Quartz (14808-60-7) - HSE WEL TWA: 0.4 mg/m3 (resp. dust) Kieselguhr, soda ash flux-calcined (68855-54-9) - HSE WEL TWA: 1.2 mg/m3

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:

Not specified.

8.3.3 Skin Protection:

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

8.3.4 Respiratory Protection:

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.3.5 Ingestion:

Do not ingest.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour: Blue paste with a slight

characteristic odour.

- pH: Not applicable

- Boiling point/boiling range: Not applicable

- Melting point/melting range: Not determined

- Flash point: Not applicable

- Autoflammability: Not determined

- Flammable Limits - LEL: Not applicable

- Flammable Limits - UEL: Not applicable

- Vapour pressure: Not applicable

- Water Solubility: Nil

- Specific gravity: >= 1

- Vapour density: Not applicable

- Volatile organic compounds: Not applicable

- Evaporation rate: Not applicable

- Viscosity: 40000 - 150000 mPa.s

- Percent Volatile: Not applicable

10 STABILITY AND REACTIVITY

- 10.1 Stability and Reactivity:
 Stable.
 Hazardous polymerisation will not occur.
- 10.2 Conditions to Avoid: Heat.
- 10.3 Materials to Avoid: None known.
- 10.4 Hazardous Decomposition:
 Carbon monoxide During Combustion.
 Carbon dioxide During Combustion.
 Irritant Vapours or Gases During Combustion.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:

- Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.
- 11.2 Effects from Skin Contact:
 - Contact with the skin during product use is not expected to result in significant irritation.
- 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 contains quartz silica. Cancer of the lungs and silicosis has been associated with quartz (crystalline) silica.

 No exposure to quartz (crystalline) silica is anticipated during normal intended handling of the paste or grinding of the cured material. Therefore, the health effects associated with crystalline silica (e.g. quartz) are not expected during the foreseeable use of this product.

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:

A conservative assessment indicates this product presents a low environmental risk because use and disposal are unlikely to result in the significant release of components to the environment.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:

Cure (harden, set, or react) the product according to product instructions. Dispose of completely cured (or polymerised) wastes in a sanitary landfill. As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator in the presence of a combustible material. 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: Not determined.
- 13.6 Special Instructions: Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

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- UN number:

Not restricted for transportation.

15 REGULATORY INFORMATION

Label Version Number:

02.00

Symbol(s):

None.

Risk Phrases:

None.

Safety Phrases:

S24/25 Avoid contact with the skin and eyes.

In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

S28A After contact with skin, wash immediately with plenty

of soap and water.

Disclosable Ingredients:

No ingredients required on the label.

Product Certifications: EINECS - Exempt.

16 OTHER INFORMATION

16.1 Complete list of risk phrases:

Harmful by inhalation.

R48

Danger of serious damage to health by prolonged

exposure through inhalation.

16.2 Limitations on Use of Product:

For industrial or professional use only.

16.3 Reissue date/Reason for reissue:

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

16.4 Regulatory Information:

The following UK Regulations as amended may affect the product as

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.

MATERIAL SAFETY DATA SHEET

Document id : 16-2837-9

Version

: 6.00

Issue date : 18/01/2007 Supersedes date : 31/01/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

1.1 Tradename:

Position Penta Quick Catalyst.

- 1.2 Intended Use of Product: Impressions.
- 1.3 3M Product ID: 70-2011-0996-7

1.4 Contact Address:

3M UK PLC

3M Centre, Cain Road,

Bracknell, Berkshire, RG12 8HT

3M Ireland 3M House, Adelphi Centre, Dun Laoghaire, Co. Dublin

1.5 Emergency Contact Number: +44 (0)1344 858 000

2 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name and classification | CAS number | Percentage |
|------------------------------------|------------|------------|
| | | |
| NEPHELINE SYENITE | 37244-96-5 | 60 - 75 |
| Siloxanes and silicones, Di-Me, | 68083-19-2 | 10 - 25 |
| vinyl group-terminated | | |
| Poly(dimethylsiloxane) | 63148-62-9 | 5 - 10 |
| Dimethyl siloxane, reaction | 67762-90-7 | 1 - 5 |
| product with silica | | |

3 HAZARDS IDENTIFICATION

Risk Phrases: None.

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:

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

4.3 Inhalation:

No need for first aid is anticipated.

4.4 Ingestion:

No need for first aid is anticipated.

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: Not determined.
- 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: Ventilate the area with fresh air. Collect as much of the spilled material as possible. Clean up residue. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

- 7.1 Precautions for Safe Handling: Not specified
- 7.2 Precautions for Safe Storage:
- Incompatible Materials/Conditions: Store away from heat. Store out of direct sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Recommended Ventilation: Not applicable.
- 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:

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:

Not specified.

8.3.3 Skin Protection:

Gloves not normally required. Avoid prolonged or repeated skin

8.3.4 Respiratory Protection:

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.3.5 Ingestion:

Do not ingest.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour:

Red paste with a slight

characteristic odour.

- pH:

Not applicable

- Boiling point/boiling range: Not applicable

- Melting point/melting range: Not determined

- Flash point:

Not applicable

- Autoflammability:

Not determined

- Flammable Limits - LEL:

Not applicable

- Flammable Limits - UEL:

Not applicable

- Vapour pressure:

Not applicable

- Water Solubility:

Nil

- Specific gravity:

>= 1

- Vapour density:

Not applicable

- Volatile organic compounds: Not applicable

- Evaporation rate:

Not applicable

- Viscosity:

40000 - 150000 mPa.s

- Percent Volatile:

Not applicable

10 STABILITY AND REACTIVITY

- 10.1 Stability and Reactivity:
 Stable.
 Hazardous polymerisation will not occur.
- 10.2 Conditions to Avoid:
 Heat.
- 10.3 Materials to Avoid: None known.
- 10.4 Hazardous Decomposition:
 Carbon monoxide During Combustion.
 Carbon dioxide During Combustion.
 Irritant Vapours or Gases During Combustion.

11 TOXICOLOGICAL INFORMATION

- 11.1 Effects from Eye Contact:
 - Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.
- 11.2 Effects from Skin Contact:
 - Contact with the skin during product use is not expected to result in significant irritation.
- 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:

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: A conservative assessment indicates this product presents a low environmental risk because use and disposal are unlikely to result in the significant release of components to the environment.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:

Cure (harden, set, or react) the product according to product instructions. Dispose of completely cured (or polymerised) wastes in a sanitary landfill. As a disposal alternative, incinerate in an industrial or commercial facility in the presence of a combustible material.

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

14 TRANSPORT INFORMATION

- UN number:

Not restricted for transportation.

15 REGULATORY INFORMATION

Label Version Number:

02.00

Symbol(s):

None.

Risk Phrases:

None.

Safety Phrases:

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.

S28A After contact with skin, wash immediately with plenty

of soap and water.

Disclosable Ingredients:

No ingredients required on the label.

Product Certifications:

EINECS - Exempt.

16 OTHER INFORMATION

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- 16.1 Complete list of risk phrases: None.
- 16.2 Limitations on Use of Product:
 For use only by dental professionals
- 16.3 Reissue date/Reason for reissue:
 Complete MSDS revision in accordance with EU directive
 2001/58/EC.
- 16.4 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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