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KIT SAFETY DATA SHEET

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Document id : 16-5643-8 Issue date : 20/11/2007
Version : 9.00 Supersedes date : 02/03/2006

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 Impregum Penta/ Impregum Penta L Duosoft/ Impregum Soft LB Kit
- 1.2 Intended Use of Product:
For professional use only.
- 1.3 3M Product ID:
70-2011-2043-6, 70-2011-2033-7
- 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 E-mail Address and Emergency Contact Number:
tox.uk@mmm.com
+44 (0)1344 858 000
- 1.6 Kit Components:
16-5547-1 3M Impregum Penta/ Impregum Penta L Duosoft/ Impregum Penta Soft LB Base
16-5550-5 3M Impregum Penta/ Impregum Penta L Duosoft/ Impregum Penta Soft LB
Catalyst

2 KIT LABEL

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SAFETY DATA SHEET

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Document id : 16-5547-1 Issue date : 20/11/2007
Version : 7.00 Supersedes date : 11/10/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- 1.1 Tradename:
3M Impregum Penta/ Impregum Penta L Duosoft/ Impregum Penta Soft
LB Base
- 1.2 Intended Use of Product:
For professional use only.
- 1.3 3M Product ID:
Component only. This can only be purchased as part of a kit.
- 1.4 Contact Address:
3M UK PLC
3M Ireland

3M Centre, Cain Road,
Bracknell, Berkshire, RG12 8HT

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

1.5 E-mail Address and Emergency Contact Number:

tox.uk@mmm.com
+44 (0)1344 858 000

2 HAZARDS IDENTIFICATION

Risk Phrases:

None.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
Polyether	Trade Secret	55 - 65
Kieselguhr, soda ash flux-calcined	68855-54-9	5 - 20
EU Number: EINECS 272-489-0		
Fatty acid triglycerides	Trade Secret	5 - 20
Dibenzyl toluene	Trade Secret	0 - 10
Barium zinc sulphate sulphide	1345-05-7	□ 1
EU Number: EINECS 215-715-5		

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 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.

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 with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and MSDS.
 Collect the resulting residue containing solution.
 Place in a closed container approved for transportation by appropriate authorities.

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 3 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:
 Gloves not normally required.

8.3.3 Skin Protection:
 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:	Solid paste with different colours and a characteristic odour.
- pH:	Not determined
- Boiling point/boiling range:	Not applicable
- Melting point/melting range:	Not applicable
- 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 - 1.2 (Water=1)
- Vapour density: Not applicable
- Volatile organic compounds: Not determined
- Evaporation rate: Not applicable
- Viscosity: 40000 - 150000 mPa.s
- Percent Volatile: Not determined

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:
Single exposure may cause:
 - Mild Eye Irritation: Signs/symptoms may include redness, pain and tearing.
- 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 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:
Not determined.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:

Dispose of completely cured (or polymerised) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator 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

Transport Details:

Please see the Annex to this document in which all transportation information is given.

15 REGULATORY INFORMATION

Label Version Number:

01.00

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.

16 OTHER INFORMATION

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.

The information on this Safety 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.

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SAFETY DATA SHEET

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Document id : 16-5550-5 Issue date : 20/11/2007
 Version : 6.00 Supersedes date : 11/10/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

- 1.1 Tradename:
 3M Impregum Penta/ Impregum Penta L Duosoft/ Impregum Penta Soft
 LB Catalyst
- 1.2 Intended Use of Product:
 For professional use only.
- 1.3 3M Product ID:
 Component only. This can only be purchased as part of a kit.
- 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 E-mail Address and Emergency Contact Number:
 tox.uk@mmm.com
 +44 (0)1344 858 000

2 HAZARDS IDENTIFICATION

Risk Phrases:
 None.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
Tributyl o-acetylcitrate	77-90-7	35 - 50
EU Number: EINECS 201-067-0		
Sulphonium salt	Trade Secret	15 - 30
Silaname, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	20 - 30
EU Number: EINECS 272-697-1		
Kieselguhr, soda ash flux-calcined	68855-54-9	10 - 20
EU Number: EINECS 272-489-0		
Polyethylene-polypropylene glycol	9003-11-6	1 - 5

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 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.
- 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 with an appropriate solvent selected by a
qualified and authorised person. Ventilate the area with fresh
air. Read and follow safety precautions on the solvent label and
MSDS.
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 3 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:

Gloves not normally required.

8.3.3 Skin Protection:

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:	Dark red solid paste with a slight acrid odour.
- pH:	Not determined
- 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:	1.1 - 1.4 (Water=1)
- Vapour density:	Not applicable
- Volatile organic compounds:	Not applicable
- Evaporation rate:	Not applicable
- Viscosity:	Not determined
- 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:
Irritant vapours or gases - During Combustion.

11 TOXICOLOGICAL INFORMATION

- 11.1 Effects from Eye Contact:
Single exposure may cause:
- Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
- 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 health effects are expected.
- 11.4 Effects from Ingestion:
No health effects are expected.
- 11.5 Other Effects and Information:
Not specified.

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:
Not determined.

13 DISPOSAL CONSIDERATIONS

- 13.1 Product as Sold:
Dispose of completely cured (or polymerised) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator 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

Transport Details:

Please see the Annex to this document in which all transportation information is given.

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.

16 OTHER INFORMATION

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.

The information on this Safety 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.