

3M UK PLC
3M CENTRE, CAIN RD,
BRACKNELL, BERKSHIRE, RG12 8HT
Tel: 01344 858000

3M IRELAND
3M HOUSE, ADELPHI CENTRE,
DUN LAOGHAIRE, CO. DUBLIN
Tel: 01 2803555

Kit MSDS

Document id : 16-2612-6 Issue date : 03/03/2006
Version : 4.01 Supersedes date : 03/02/2006

1 INFORMATION REGARDING KIT

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.

Tradename:

RAMITEC KIT

3M Product ID:

70-2011-0664-1

Kit Components

16-2610-0

3M(TM) RAMITEC CATALYST

16-2611-8

3M(TM) RAMITEC/RAMITEC PENTA BASE

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3M IRELAND
3M HOUSE, ADELPHI CENTRE,
DUN LAOGHAIRE, CO. DUBLIN
Tel: 01 2803555

MATERIAL SAFETY DATA SHEET

Document id : 16-2611-8 Issue date : 13/05/2005
Version : 3.01 Supersedes date : 16/03/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:

3M(TM)RAMITEC/RAMITEC PENTA BASE

3M Product ID:

70-2011-0663-3

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
POLYETHER	---	50.0 - 60.0
DIATOMACEOUS EARTH	68855-54-9	20.0 - 30.0
Regulatory Lists: IARC(Group 1) - Category: SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) NTPCARCIN(Known human carcinogen) - Category: SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)		
DIBENZYL TOLUENE	---	10 - 20
FATTY ACIDS TRIGLYCERIDES	---	5.0 - 10.0
MAGNESIUM OXIDE	1309-48-4	1.0 - 5.0

3 HAZARDS IDENTIFICATION

Critical hazards:

None.

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.

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

Suitable Extinguishing Media:

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

Hazardous Decomposition:

Irritant Vapours or Gases - During Combustion.

Fire-Fighting Procedures:

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

Special Instructions:
Not applicable.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:
Observe precautions from other sections.

Methods for Cleaning up:
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.

7 HANDLING AND STORAGE

Precautions for Safe Storage:
Store below 80 degrees F.

Precautions for Safe Handling:

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Skin Protection:
Gloves not normally required. Avoid prolonged or repeated skin contact.

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

Ingestion:
Do not ingest.

Recommended Ventilation:
Not applicable.

Exposure Limits:

DIATOMACEOUS EARTH (68855-54-9)

HSE WEL TWA: 1.2 mg/m³

MAGNESIUM OXIDE (1309-48-4)

HSE WEL TWA: 4 mg/m³ as Mg fume and respirable dust; 10 mg/m³ Total inhalable dust as Mg OES

HSE WEL STEL: 10 mg/m³ fume and respirable dust as Mg OES

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: White, solid, paste with

	characteristic odour.
pH:	Not applicable
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not determined
Flash point:	Not applicable
Autoflammability:	Not determined
Vapour pressure:	Not applicable
Water Solubility:	Nil @ 23 C
Specific gravity:	1 - 1.2 CONDITIONS: @ 23 C WATER = 1
Vapour density:	Not applicable
Volatile organic compounds:	Not applicable
Evaporation rate:	Not applicable
Viscosity:	1050 - 1250 PA-S
Percent Volatile:	Not applicable

10 STABILITY AND REACTIVITY

Materials to Avoid:
None known.

Hazardous Decomposition:
Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:
Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Effects from Skin Contact:
Contact with the skin during product use is not expected to result in significant irritation.

Effects from Inhalation:
Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:
Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:
Not determined.

Ecofate Data:
Not determined.

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

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.

Special Instructions:

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

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

Disclosable Ingredients:

No ingredient required on the label.

Symbol(s):

None.

Risk Phrases:

None.

Safety Phrases:

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.

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 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 MSDS

Intended Use of Product:

Impressions.

Limitations on Use of Product:

For use only by dental professionals

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MATERIAL SAFETY DATA SHEET

Document id : 16-2610-0 Issue date : 16/03/2005
Version : 4.00 Supersedes date : 13/05/2004

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M(TM) RAMITEC CATALYST

3M Product ID:
70-2011-0662-5

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
CITRIC ESTER	77-90-7	30 - 40
SULFONIUM SALT	---	30 - 40
SILANE TREATED SILICA	68909-20-6	15 - 25
DIATOMACEOUS EARTH	68855-54-9	1 - 10
Regulatory Lists: IARC(Group 1) - Category: SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE) NTPCARCIN(Known human carcinogen) - Category: SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF RESPIRABLE SIZE)		
POLYETHYLENE-POLYPROPYLENE GLYCOL	9003-11-6	1 - 10
PIGMENT YELLOW	100208-62-6	1 - 5

3 HAZARDS IDENTIFICATION

Critical hazards:
None.

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.

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

Suitable Extinguishing Media:

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

Hazardous Decomposition:

Irritant Vapours or Gases - During Combustion.

Fire-Fighting Procedures:

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

Special Instructions:

Not applicable.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

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.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Store below 25 degrees Celcius

Precautions for Safe Handling:

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

Skin Protection:

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

Respiratory Protection:

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

Ingestion:

Do not ingest.

Recommended Ventilation:

Not applicable.

Exposure Limits:

DIATOMACEOUS EARTH (68855-54-9)

UK HSE TWA: 1.2 mg/m³

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Soild, yellow paste with characteristic odour.
pH:	Not applicable
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not applicable
Flash point:	Not applicable
Autoflammability:	Not determined
Vapour pressure:	Not applicable
Water Solubility:	Nil @ 23 C
Specific gravity:	1.1 -1.3 @ 23 C
Vapour density:	Not applicable
Volatile organic compounds:	Not applicable
Evaporation rate:	Not applicable
Viscosity:	150 - 190 PA-S
Percent Volatile:	Not applicable

10 STABILITY AND REACTIVITY

Materials to Avoid:

None known.

Hazardous Decomposition:

Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

Effects from Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation.

Effects from Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

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

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.

Special Instructions:

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

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

Disclosable Ingredients:

No ingredients required on label.

Symbol(s):

None.

Risk Phrases:

None.

Safety Phrases:

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.

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 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.
Checked MSDS history.

Intended Use of Product:
Impressions.

Limitations on Use of Product:
For dentists only

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