

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 : 16-2835-3 Issue date : 28/12/2005
Version : 3.00 Supersedes date : 19/01/2005

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:

3M(TM) ESPE(TM) DURELON(TM) MAXICAP(TM)

3M Product ID:

70-2011-0328-3

Kit Components

16-2831-2 DURELON MAXICAP LIQUID

16-2833-8 DURELON MAXICAP POWDER

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.

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

=====
MATERIAL SAFETY DATA SHEET
=====

Document id : 16-2831-2 Issue date : 28/12/2005
Version : 3.00 Supersedes date : 19/01/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
DURELON MAXICAP LIQUID

3M Product ID:

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
WATER	7732-18-5	Greater than 99

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:
No need for first aid is anticipated.

Inhalation:
No need for first aid is anticipated.

Ingestion:
No need for first aid is anticipated.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:
Non-combustible. Choose material suitable for surrounding fire.

Hazardous Decomposition:
Carbon monoxide - During Combustion. Carbon dioxide - 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:

Seal the container. Contain spill. 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

Fire Prevention:

Not applicable.

Precautions for Safe Handling:

Please observe other sections of this MSDS.

 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:

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

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:

 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Colourless, odourless liquid.
pH:	3 -4
Boiling point/boiling range:	100.0 C
Melting point/melting range:	Not applicable
Flash point:	Not applicable
Autoflammability:	Not determined
Vapour pressure:	17 mmHg
Water Solubility:	Complete

Specific gravity:	1 -1.1
Vapour density:	< 1, Air = 1
Volatile organic compounds:	Not applicable
Evaporation rate:	Not determined
Viscosity:	2.4 MPAS
Percent Volatile:	Not determined

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:
No health effects are expected.

Effects from Inhalation:
No adverse health effects are expected.

Effects from Ingestion:
No health effects are expected.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:
Not determined.

Ecofate Data:
Not determined.

13 DISPOSAL CONSIDERATIONS

Product as Sold:
Dispose of waste product in a facility permitted to accept chemical waste.

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

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN3077

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN3077

Class: 9.0

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (Zinc Oxyde)

ADR/RID CLASSIFICATION:

Class: 9.0

ADR classification: M7

ICAO/IATA CLASSIFICATION:

Class: 9.0

Sub-Risk: Not applicable.

Packing Group: III

Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (Zinc Oxyde)

15 REGULATORY INFORMATION

Disclosable Ingredients:
No ingredients required on label.

Symbol(s):
None.

Risk Phrases:
None.

Safety Phrases:
Avoid contact with eyes.

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 section 14.

Intended Use of Product:
 Dental cement.

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.

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

=====

MATERIAL SAFETY DATA SHEET

=====

Document id	: 16-2833-8	Issue date	: 28/12/2005
Version	: 5.00	Supersedes date	: 19/01/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
 DURELON MAXICAP POWDER

3M Product ID:

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
ZINC OXIDE	1314-13-2	70 - 80
EU Hazard Symbols and Risk Phrases: EU - 29th Adaptation (N; R:50/53)		
POLYACRYLIC ACID	9003-01-4	10 - 20
STANNOUS FLUORIDE	7783-47-3	1 - 5
TIN DIOXIDE	18282-10-5	1 - 5

3 HAZARDS IDENTIFICATION

Critical hazards:

Dangerous to environment. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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:

Ordinary combustible material. Use fire extinguishers with class A extinguishing agents (e.g., water, foam).

Exposure Hazards:

Non-flammable: ordinary combustible material.

Hazardous Decomposition:

Carbon monoxide - During Combustion. Carbon dioxide - during combustion.

Fire-Fighting Procedures:

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

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. 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

Precautions for Safe Handling:

Please observe other sections of this MSDS.

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:

Avoid prolonged or repeated skin contact. 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:

ZINC OXIDE (1314-13-2)

HSE WEL TWA: 5 mg/m³ as fume OES

HSE WEL STEL: 10 mg/m³ as fume OES

TIN DIOXIDE (18282-10-5)

HSE WEL TWA: 0.1 mg/m³ skin organic as Sn OES

HSE WEL STEL: 0.2 mg/m³ skin organic as Sn OES

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:

Slightly pink fine powder
(less than 10µm in diameter)
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
Vapour pressure:	Not applicable
Water Solubility:	Nil
Specific gravity:	2.8 -3.2 Water=1
Vapour density:	Not applicable
Volatile organic compounds:	Not applicable
Evaporation rate:	Not applicable
Viscosity:	Not applicable
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:
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:
Mild Skin Irritation: signs/symptoms may include localised redness, swelling, and itching.

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:

Dispose of waste product in a facility permitted to accept chemical waste.

Special Instructions:

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

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN3077

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN3077
Class: 9.0
Packing Group: III
Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (Zinc Oxyde)

ADR/RID CLASSIFICATION:

Class: 9.0
ADR classification: M7

ICAO/IATA CLASSIFICATION:

Class: 9.0
Sub-Risk: Not applicable.
Packing Group: III
Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S. (Zinc Oxyde)

15 REGULATORY INFORMATION

Disclosable Ingredients:
ZINC OXIDE.

Symbol(s):

(N) Dangerous to environment.

Risk Phrases:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

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. Use only in well ventilated areas. This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/safety data sheets.

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 section 14.

Intended Use of Product:

Dental cement

Limitations on Use of Product:

For use only by dental professionals.

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.

