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Kit MSDS

Document id : 16-2775-1 Issue date : 01/03/2006
Version : 3.00 Supersedes date : 10/06/2004

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:

KETAC-MOLAR QUICK APLICAP

3M Product ID:

70-2011-0097-4, 70-2011-0098-2, 70-2011-0099-0, 70-2011-0100-6,
70-2011-0101-4, 70-2011-0102-2

Kit Components

16-2773-6 KETAC-MOLAR QUICK POWDER
16-2774-4 KETAC-MOLAR QUICK LIQUID

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.

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MATERIAL SAFETY DATA SHEET

Document id : 16-2773-6 Issue date : 01/03/2006
Version : 4.00 Supersedes date : 10/06/2004

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:

KETAC-MOLAR QUICK POWDER

3M Product ID:

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
GLASS POWDER	65997-17-3	93.0 - 98.0
POLYETHYLENE POLYCARBONIC ACID	29132-58-9	1.0 - 5.0
EU Hazard Symbols and Risk Phrases: EU - 3M Classified (Xi; R:36)		

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:

No need for first aid is anticipated.

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. Carbon Monoxide, Carbon Dioxide.

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.

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. Dispose of collected material as soon as possible.

 7 HANDLING AND STORAGE

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:

GLASS POWDER (65997-17-3)

HSE WEL TWA: UK HSE TWA Exposure limit: 10mg/m3 as total inhalable dust.

UK HSE TWA Exposure limit: 4mg/m3 as total respirable dust.

3M TWA Exposure Limit: 10 mg/m3 as dust

 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Different coloured, odourless fine powder (less than 10µm in diameter).
pH:	Not determined
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:	> 1 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.

Stability and Reactivity:
Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:
Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

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

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

Effects from Ingestion:
No health effects are expected.

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. Components released to the environment through use and disposal are expected to have minimal environmental impact.

13 DISPOSAL CONSIDERATIONS

Product after Use:
Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative,

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:

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 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 HISTORY

Intended Use of Product:
Restorative.

Limitations on Use of Product:
For use only by dental professionals

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MATERIAL SAFETY DATA SHEET

Document id	: 16-2774-4	Issue date	: 01/03/2006
Version	: 4.00	Supersedes date	: 10/06/2004

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:

KETAC-MOLAR QUICK LIQUID

3M Product ID:

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
WATER	7732-18-5	60.0 - 65.0
POLYETHYLENE POLYCARBONIC ACID	29132-58-9	30.0 - 40.0
EU Hazard Symbols and Risk Phrases: EU - 3M Classified (Xi; R:36)		
TARTARIC ACID	87-69-4	5 - 10
EU Hazard Symbols and Risk Phrases: EU - Vendor Classified (Xi; R:36)		

3 HAZARDS IDENTIFICATION

Critical hazards:

Irritant. Irritating to eyes.

4 FIRST-AID MEASURES

Eye Contact:

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

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.

Inhalation:

No need for first aid is anticipated.

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).

Exposure Hazards:

Non-flammable: ordinary combustible material.

Hazardous Decomposition:

Irritant vapours or gases. Carbon Monoxide, Carbon Dioxide.

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.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

Ventilate the area with fresh air. Contain spill. Cover with absorbent material. 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

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:

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:

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Colourless liquid with a slight characteristic odour.
pH:	1
Boiling point/boiling range:	100.0 C
Melting point/melting range:	0.0 C
Water Solubility:	Complete
Specific gravity:	> 1 Water=1
Viscosity:	Less Than 10000 centipoise

Percent Volatile:

10 STABILITY AND REACTIVITY

Materials to Avoid:
None known.

Stability and Reactivity:
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:
Prolonged or repeated exposure may cause: Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Effects from Inhalation:
No adverse health effects are expected.

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

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:

POLYETHYLENE POLYCARBONIC ACID; TARTARIC ACID.

Symbol(s):

(Xi) St. Andrew's Cross (Irritant).

Risk Phrases:

(R36) Irritating to eyes.

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 HISTORY

Intended Use of Product:
Restorative

Limitations on Use of Product:
For use only by dental professionals

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