KIT SAFETY DATA SHEET

Document id	: 07-6220-3	Issue date	: 19/10/2007
Version	: 2.00	Supersedes date	: 07/03/2006

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 FT-30 Qualitive Fit Test Kit, Bitter

1.2 Intended Use of Product:
Test solutions for industrial or professional use.

1.3 3M Product ID:
70-0707-0964-0

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

1.6 Kit Components:

07-6198-1	3M FT-31, Denatonium Benzoate Sensitivity Solution
07-6218-7	3M FT-32, Denatonium Benzoate Fit Test Solution

2 KIT LABEL

Label Version Number:
01.00

SAFETY DATA SHEET

Document id	: 07-6198-1	Issue date	: 19/10/2007
Version	: 3.00	Supersedes date	: 07/03/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Tradename:
3M FT-31, Denatonium Benzoate Sensitivity Solution

1.2 Intended Use of Product:
Sensitivity test solution.

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
Water EU Number: EINECS 231-791-2	7732-18-5	80 - 100
Sodium chloride EU Number: EINECS 231-598-3	7647-14-5	3 - 7
Denatonium benzoate EU Number: EINECS 223-095-2	3734-33-6	0 - 1

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:
Remove person to fresh air. If signs/symptoms develop, get medical attention.

4.4 Ingestion:
No need for first aid is anticipated.

5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media:
Not specified.

5.2 Unsuitable Extinguishing Media:
Not specified.

5.3 Exposure Hazards:
Material will not burn.

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:
Contain spill.
Collect as much of the spilled material as possible.
Clean up residue with water.
Clean up residue with detergent and water.
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:
For industrial or professional use only.

7.2 Precautions for Safe Storage:
Store under normal warehouse conditions.

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.

8.3.2 Hand Protection:
Gloves are not required.

8.3.3 Skin Protection:
Not specified.

8.3.4 Respiratory Protection:
Not applicable.

8.3.5 Ingestion:
Not applicable.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour:	Clear, odourless solution with a bitter taste.
- pH:	± 6.52
- Boiling point/boiling range:	Not applicable
- Melting point/melting range:	Not applicable
- Flash point:	Not applicable
- Autoflammability:	Not applicable
- Flammable Limits - LEL:	Not applicable
- Flammable Limits - UEL:	Not applicable
- Vapour pressure:	Not applicable
- Water Solubility:	Complete
- Specific gravity:	1.034 (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

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

10.2 Conditions to Avoid:
None known.

10.3 Materials to Avoid:
None known.

10.4 Hazardous Decomposition:
None known.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:
No health effects are expected.

11.2 Effects from Skin Contact:
No health effects are expected.

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

11.4 Effects from Ingestion:
No health effects are expected.

11.5 Other Effects and Information:

- Product Based Information:
A Draize Primary Eye Irritation Test (OECD Guideline 405) using this material produced scores of zero at all time points (1, 24, 48, 72 hrs post exposure). A Guinea Pig Maximization Test (OECD Guideline 406) using this material showed a reaction in one animal, erythema, at the 24-hour observation post challenge. Therefore, the material has a weak sensitizing potential (% responding >0% - <8%). An Assessment of Acute Inhalatory Toxicity, with a 4-hour exposure (OECD Guideline 403) with this material produced no changes in gross motor skills and no changes in respiratory tract histology. At the maximum airborne concentration of material, statistically significant changes in physical breathing parameters such as expiratory time, retention time, expiratory flow, and enhanced pause were observed. These effects are thought to be indicative of non-specific, irritant action.

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:
Discharge spent solutions and small quantities (less than 19L)to a wastewater treatment system.

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:
Reclaim if feasible.

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:
01.00

Symbol(s):
None.

Risk Phrases:
None.

Safety Phrases:
None.

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 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 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.

SAFETY DATA SHEET

Document id	: 07-6218-7	Issue date	: 19/10/2007
Version	: 4.00	Supersedes date	: 07/03/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Tradename:
3M FT-32, Denatonium Benzoate Fit Test Solution

1.2 Intended Use of Product:
Test solutions for use with respirators.

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
Water EU Number: EINECS 231-791-2	7732-18-5	80 - 100
Sodium chloride EU Number: EINECS 231-598-3	7647-14-5	3 - 7
Denatonium benzoate EU Number: EINECS 223-095-2	3734-33-6	0 - 1

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:
Remove person to fresh air. If signs/symptoms develop, get medical attention.

4.4 Ingestion:
No need for first aid is anticipated.

5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media:
Not specified.

5.2 Unsuitable Extinguishing Media:
Not specified.

5.3 Exposure Hazards:
Material will not burn.

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:
Contain spill.
Collect as much of the spilled material as possible.
Clean up residue with water.
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:
For industrial or professional use only.

7.2 Precautions for Safe Storage:
Store under normal warehouse conditions.

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.

8.3.2 Hand Protection:
Gloves are not required.

8.3.3 Skin Protection:
Not specified.

8.3.4 Respiratory Protection:
Not applicable.

8.3.5 Ingestion:
Not applicable.

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour:	Clear, odourless solution with a bitter taste.
- pH:	± 6.52 Not applicable
- Boiling point/boiling range:	Not applicable
- Melting point/melting range:	Not applicable
- Flash point:	Not applicable
- Autoflammability:	Not applicable
- Flammable Limits - LEL:	Not applicable
- Flammable Limits - UEL:	Not applicable
- Vapour pressure:	Not applicable
- Water Solubility:	Complete
- Specific gravity:	1.034 (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

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

10.2 Conditions to Avoid:
None known.

10.3 Materials to Avoid:
None known.

10.4 Hazardous Decomposition:
None known.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:
No health effects are expected.

11.2 Effects from Skin Contact:
No health effects are expected.

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

11.4 Effects from Ingestion:
No health effects are expected.

11.5 Other Effects and Information:

- Product Based Information:
A Draize Primary Eye Irritation Test (OECD Guideline 405) using this material produced scores of zero at all time points (1, 24, 48, 72 hrs post exposure). A Guinea Pig Maximization Test (OECD Guideline 406) using this material showed a reaction in one animal, erythema, at the 24-hour observation post challenge. Therefore, the material has a weak sensitizing potential (% responding >0% - <8%). An Assessment of Acute Inhalatory Toxicity, with a 4-hour exposure (OECD Guideline 403) with this material produced no changes in gross motor skills and no changes in respiratory tract histology. At the maximum airborne concentration of material, statistically significant changes in physical breathing parameters such as expiratory time, retention time, expiratory flow, and enhanced pause were observed. These effects are thought to be indicative of non-specific, irritant action.

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

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:
Discharge small quantities of less than 5 gallons (20L) to a municipal or industrial waste water treatment system.

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:
Reclaim if feasible.

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:
01.00

Symbol(s):
None.

Risk Phrases:
None.

Safety Phrases:
None.

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 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 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.