



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

3M FT-30 Qualitative Fit Test Kit, Bitter

Product identification numbers

70-0707-0964-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Qualitative Fit Test Kit, Bitter

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the MSDSs for components of this product are:

07-6198-1, 07-6218-7

TRANSPORTATION INFORMATION

70-0707-0964-0

Not hazardous for transportation

KIT LABEL

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbols None.

Contains:

Consult the component labels for disclosable ingredients.

Risk phrases

Safety phrasesNone.

Revision information:

Revision Changes:

Section 1: Product identification numbers heading was modified.

Section 1: Product identification numbers was modified.

Section 1: Address was modified.

Copyright was modified.

Company logo was added.

Telephone header was added.

Company Telephone was added.



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Document group:	07-6198-1	Version number:	4.01
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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

FT-31, Denatonium Benzoate Sensitivity Solution

Product identification numbers

70-0707-0965-7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Sensitivity Test Solution.

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbols None.

Contains:

Non-hazardous ingredients

FT-31, Denatonium Benzoate Sensitivity Solution

Risk phrases None.

Safety phrases

S51 Use only in well ventilated areas.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-hazardous ingredients	Mixture		80 - 100	
Sodium Chloride	7647-14-5	EINECS 231-598-3	3 - 7	
Denatonium Benzoate	3734-33-6	EINECS 223-095-2	0 - 1	Xn:R20-22; Xi:R41 (Self Classified) Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Dam. 1, H318 (Self Classified)

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures**4.1. Description of first aid measures****Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Inhalation

No need for first aid is anticipated.

If swallowed

No need for first aid is anticipated.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures**5.1. Extinguishing media**

Material will not burn.

5.2. Special hazards arising from the substance or mixture

FT-31, Denatonium Benzoate Sensitivity Solution

None inherent in this product.

5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up residue with detergent and water. Collect as much of the spilled material as possible. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Seal the container.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

8.2. Exposure controls

8.2.1. Engineering controls

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

Skin protection is not required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Clear, odourless solution with a bitter taste. Freezing point = -4 degrees Centigrade
pH	± 6.52 Units not available or not applicable.
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>Not applicable.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Relative density	1.034 [Ref Std: WATER=1]
Water solubility	Complete
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>Not applicable.</i>
Vapour density	<i>Not applicable.</i>
Viscosity	<i>Not applicable.</i>

9.2. Other information

Volatile organic compounds (VOC)	<i>Not applicable.</i>
Percent volatile	<i>Not applicable.</i>
VOC less H ₂ O & exempt solvents	<i>Not applicable.</i>

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

FT-31, Denatonium Benzoate Sensitivity Solution**10.6 Hazardous decomposition products****Substance**

None known.

Condition

Not specified.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

Eye contact

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

Skin contact

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

Inhalation

No health effects are expected.

Ingestion

No health effects are expected.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg	Not classified (0% unknown)
Sodium Chloride	Dermal	Rabbit	LD50 > 10,000 mg/kg	Not classified
Sodium Chloride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 11 mg/l	Category5
Sodium Chloride	Ingestion	Rat	LD50 3,000 mg/kg	Category5
Denatonium Benzoate	Inhalation-Dust/Mist		LC50 estimated to be 1 - 5 mg/l	Category4
Denatonium Benzoate	Dermal	Rat	LD50 > 2,000 mg/kg	Not classified
Denatonium Benzoate	Ingestion	Rat	LD50 584 mg/kg	Category4

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified

FT-31, Denatonium Benzoate Sensitivity Solution

Sodium Chloride		No data available	
Denatonium Benzoate		Mild irritant	Category 3

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Sodium Chloride		No data available	
Denatonium Benzoate		Corrosive	Category 1

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Sodium Chloride		No data available	
Denatonium Benzoate		Some positive data exist, but the data are not sufficient for classification	Not classified

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Sodium Chloride		No data available	
Denatonium Benzoate		Some positive data exist, but the data are not sufficient for classification	Not classified

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Sodium Chloride		No data available	
Denatonium Benzoate	In Vitro	Not mutagenic	Not classified
Denatonium Benzoate	In vivo	Not mutagenic	Not classified

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Sodium Chloride			No data available	
Denatonium Benzoate	Ingestion		Not carcinogenic	Not classified

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		No test data available.				Not classified based on

FT-31, Denatonium Benzoate Sensitivity Solution

						component data
Sodium Chloride		No data available				
Denatonium Benzoate	Ingestion	Not toxic to reproduction and/or development		NOAEL 16 mg/kg/day		

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Not classified based on component data
Sodium Chloride			No data available				
Denatonium Benzoate			No data available				

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Not classified based on component data
Sodium Chloride			No data available				
Denatonium Benzoate	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification		LOEL 1.6 mg/kg/day		Not classified
Denatonium Benzoate	Ingestion	heart bone, teeth, nails, and/or hair bone marrow hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system	All data are negative		NOAEL 16 mg/kg/day		Not classified

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Sodium Chloride	Not an aspiration hazard	Not classified
Denatonium Benzoate	Not an aspiration hazard	Not classified

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Reclaim if feasible. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

Reclaim solvent if feasible.

FT-31, Denatonium Benzoate Sensitivity Solution

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

161002 Aqueous liquid wastes other than those mentioned in 16 10 01

SECTION 14: Transportation information

70-0707-0965-7

Not hazardous for transportation

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

List of relevant R-phrases

R20	Harmful by inhalation.
R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.

Revision information:

Revision Changes:

Safety phrase was modified.

Section 9: pH information was modified.

Section 16: UK disclaimer was modified.

Section 1: Product identification numbers heading was modified.

Section 1: Product identification numbers was modified.

Section 9: Evaporation Rate information was modified.

Section 9: Viscosity information was modified.

Section 16: List of relevant R phrase information was modified.

Section 3: Composition/ Information of ingredients table was modified.
Section 9: n-octanol/water coefficient information was modified.
Section 9: Boiling point information was modified.
Section 9: Relative density information was modified.
Section 9: Solubility in water text was modified.
Section 12: Contact manufacturer for more detail. was modified.
Section 13: EU waste code (product as sold) information was modified.
Section 1: Address was modified.
Copyright was modified.
Section 9: Flash point information was modified.
Section 9: Melting point information was modified.
Section 9: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (UEL) information was modified.
Section 9: Vapour density value was modified.
Section 9: Vapour pressure value was modified.
Section 9: Property description for optional properties was modified.
Aspiration Hazard Table was modified.
Section 11: Acute Toxicity table was modified.
Carcinogenicity Table was modified.
Serious Eye Damage/Irritation Table was modified.
Germ Cell Mutagenicity Table was modified.
Skin Sensitisation Table was modified.
Respiratory Sensitisation Table was modified.
Reproductive Toxicity Table was modified.
Skin Corrosion/Irritation Table was modified.
Target Organs - Repeated Table was modified.
Target Organs - Single Table was modified.
Section 12: No PBT/vPvB information available warning was modified.
Section 10: Hazardous decomposition or by-products table was modified.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. was modified.
Section 12: Acute aquatic hazard information was added.
Section 12: Chronic aquatic hazard heading was added.
Section 12: Acute aquatic hazard heading was added.
Section 12: Chronic aquatic hazard information was added.
Company logo was added.
Telephone header was added.
Company Telephone was added.
Company Logo was deleted.

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3M United Kingdom MSDSs are available at www.3M.com/uk



Safety Data Sheet

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Transportation version number:	1.00 (05/08/2010)		

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

FT-32, Denatonium Benzoate Fit Test Solution

Product identification numbers

70-0707-0966-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Fit Test Solution.

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Symbols None.

Contains:

Non hazardous ingredient

FT-32, Denatonium Benzoate Fit Test Solution

Risk phrases None.

Safety phrases

S51 Use only in well ventilated areas.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non hazardous ingredient	Mixture		80 - 100	
Sodium Chloride	7647-14-5	EINECS 231-598-3	3 - 7	
Denatonium Benzoate	3734-33-6	EINECS 223-095-2	0 - 1	Xn:R20-22; Xi:R41 (Self Classified) Acute Tox. 4, H332; Acute Tox. 4, H302; Eye Dam. 1, H318 (Self Classified)

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

SECTION 4: First aid measures**4.1. Description of first aid measures****Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Inhalation

No need for first aid is anticipated.

If swallowed

No need for first aid is anticipated.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1 Information on toxicological effects

4.3. Indication of any immediate medical attention and special treatment required

Not applicable

SECTION 5: Fire-fighting measures**5.1. Extinguishing media**

Material will not burn.

5.2. Special hazards arising from the substance or mixture

FT-32, Denatonium Benzoate Fit Test Solution

None inherent in this product.

5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up residue with detergent and water. Collect as much of the spilled material as possible. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Seal the container.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

8.2. Exposure controls

8.2.1. Engineering controls

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

Skin/hand protection

Skin protection is not required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Clear, odourless solution with a bitter taste. Freezing point = -4 degrees Centigrade.
pH	± 6.52 Units not available or not applicable.
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>Not applicable.</i>
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Relative density	1.034 [Ref Std: WATER=1]
Water solubility	Complete
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>Not applicable.</i>
Vapour density	<i>Not applicable.</i>
Viscosity	<i>Not applicable.</i>

9.2. Other information

Volatile organic compounds (VOC)	<i>Not applicable.</i>
Percent volatile	<i>Not applicable.</i>
VOC less H₂O & exempt solvents	<i>Not applicable.</i>

SECTION 10: Stability and reactivity

10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

FT-32, Denatonium Benzoate Fit Test Solution**10.6 Hazardous decomposition products****Substance**

None known.

Condition

Not specified.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

Eye contact

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

Skin contact

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

Inhalation

No health effects are expected.

Ingestion

No health effects are expected.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg	Not classified (0% unknown)
Sodium Chloride	Dermal	Rabbit	LD50 > 10,000 mg/kg	Not classified
Sodium Chloride	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 11 mg/l	Category5
Sodium Chloride	Ingestion	Rat	LD50 3,000 mg/kg	Category5
Denatonium Benzoate	Inhalation-Dust/Mist		LC50 estimated to be 1 - 5 mg/l	Category4
Denatonium Benzoate	Dermal	Rat	LD50 > 2,000 mg/kg	Not classified
Denatonium Benzoate	Ingestion	Rat	LD50 584 mg/kg	Category4

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified

FT-32, Denatonium Benzoate Fit Test Solution

Sodium Chloride		No data available	
Denatonium Benzoate		Mild irritant	Category 3

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Sodium Chloride		No data available	
Denatonium Benzoate		Corrosive	Category 1

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Sodium Chloride		No data available	
Denatonium Benzoate		Some positive data exist, but the data are not sufficient for classification	Not classified

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Sodium Chloride		No data available	
Denatonium Benzoate		Some positive data exist, but the data are not sufficient for classification	Not classified

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Sodium Chloride		No data available	
Denatonium Benzoate	In Vitro	Not mutagenic	Not classified
Denatonium Benzoate	In vivo	Not mutagenic	Not classified

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Sodium Chloride			No data available	
Denatonium Benzoate	Ingestion		Not carcinogenic	Not classified

Reproductive Toxicity**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		No test data available.				Not classified based on

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						component data
Sodium Chloride		No data available				
Denatonium Benzoate	Ingestion	Not toxic to reproduction and/or development		NOAEL 16 mg/kg/day		

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Not classified based on component data
Sodium Chloride			No data available				
Denatonium Benzoate			No data available				

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Not classified based on component data
Sodium Chloride			No data available				
Denatonium Benzoate	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification		LOEL 1.6 mg/kg/day		Not classified
Denatonium Benzoate	Ingestion	heart bone, teeth, nails, and/or hair bone marrow hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system	All data are negative		NOAEL 16 mg/kg/day		Not classified

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Sodium Chloride	Not an aspiration hazard	Not classified
Denatonium Benzoate	Not an aspiration hazard	Not classified

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Reclaim if feasible. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

Reclaim solvent if feasible.

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The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

161002 Aqueous liquid wastes other than those mentioned in 16 10 01

SECTION 14: Transportation information

70-0707-0966-5

Not hazardous for transportation

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

List of relevant R-phrases

R20	Harmful by inhalation.
R22	Harmful if swallowed.
R41	Risk of serious damage to eyes.

Revision information:

Revision Changes:

Safety phrase was modified.

Section 9: pH information was modified.

Supersedes date text was modified.

Section 1: Main heading was modified.

Section 1: 1.1.product identifier heading was modified.

Section 1: 1.2. Relevant identified uses of the substance or mixture and uses advised against heading was modified.

Section 1: 1.3. Details of the supplier of the substance or mixture heading was modified.

Section 1: 1.4. Emergency telephone number heading was modified.

Section 2: Main heading was modified.
Section 3: Main heading was modified.
Section 4: Main heading was modified.
Section 5: 5.1. Extinguishing media heading was modified.
Section 5: Main heading was modified.
Section 5: 5.3. Advice for fire-fighters was modified.
Section 5: 5.2. Special hazards arising from the substance or mixture heading was modified.
Section 6: 6.3. Methods and material for containment and cleaning up was modified.
Section 6: 6.2. Environmental precautions heading was modified.
Section 6: Main heading was modified.
Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was modified.
Section 7: Main heading was modified.
Section 8: Main heading was modified.
Section 8: 8.1. Control parameters heading was modified.
Section 8: 8.2.1 Engineering controls heading was modified.
Section 9: Main heading was modified.
Section 9: 9.1. Information on basic physical and chemical properties heading was modified.
Section 9: 9.2. Other information heading was modified.
Section 3: Composition table % by Wt Column heading was modified.
Section 10: Main heading was modified.
Section 11: Main heading was modified.
Section 12: Main heading was modified.
Section 13: Main heading was modified.
Section 14: Main heading was modified.
Section 15: Main heading was modified.
Section 16: Main heading was modified.
Section 16: UK disclaimer was modified.
Section 2: Label ingredient information was modified.
Section 1: Product identification numbers heading was modified.
Section 1: Product identification numbers was modified.
Section 9: Evaporation Rate information was modified.
Section 9: Viscosity information was modified.
Section 16: List of relevant R phrase information was modified.
Section 3: Composition/ Information of ingredients table was modified.
Section 9: n-octanol/water coefficient information was modified.
Section 9: Boiling point information was modified.
Section 9: Relative density information was modified.
Section 9: Solubility in water text was modified.
Section 8: Skin/hand protection heading was modified.
Section 15: Symbol information was modified.
Section 12: 12.1. Toxicity heading was modified.
Section 12: 12.4 Mobility in soil heading was modified.
Section 12: Contact manufacturer for more detail. was modified.
Section 12: 12.2. persistence and degradability heading was modified.
Section 12: 12.3. Bioaccumulative potential heading was modified.
Section 12: 12.5. Results of the PBT and vPvB assessment was modified.
Section 12: 12.6. Other adverse effects was modified.
Section 13: EU waste code (product as sold) information was modified.
Section 9: Flammability (solid, gas) information was modified.
Section 9: Explosive properties information was modified.
Section 9: Oxidising properties information was modified.
Section 16: Regulations – Inventories – EU ONLY was modified.
Section 1: Address was modified.
Copyright was modified.
Section 9: Flash point information was modified.
Section 9: Melting point information was modified.

Section 9: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (UEL) information was modified.
Section 9: Vapour density value was modified.
Section 9: Vapour pressure value was modified.
Section 9: Property description for optional properties was modified.
Section 4: First aid for skin contact heading was added.
Section 4: First aid for eye contact heading was added.
Section 4: First aid for ingestion (swallowing) heading was added.
Section 4: First aid for inhalation heading was added.
Section 8: Respiratory protection information was added.
Section 8: Eye protection information was added.
Section 12: Acute aquatic hazard information was added.
Section 12: Chronic aquatic hazard heading was added.
Section 12: Acute aquatic hazard heading was added.
Section 12: Chronic aquatic hazard information was added.
Section 2: Other hazards phrase was added.
Company logo was added.
Section 3: Reference to section 15 for Nota info was added.
Telephone header was added.
Company Telephone was added.
Section 11: Information on Toxicological effects heading was added.
Section 11: Signs and Symptoms of Exposure heading was added.
Section 11: Acute Toxicity table heading was added.
Section 11: Acute Toxicity table ATE text was added.
Aspiration Hazard Table was added.
Section 11: Aspiration table heading was added.
Section 11: Acute Toxicity table was added.
Section 11: Classification disclaimer was added.
Section 11: Additional toxicological information statement was added.
Section 11: Health effects heading was added.
Carcinogenicity Table was added.
Section 11: Carcinogenicity table heading was added.
Section 11: Exposure Duration table heading was added.
Section 11: Serious Eye Damage/Irritation table heading was added.
Serious Eye Damage/Irritation Table was added.
Germ Cell Mutagenicity Table was added.
Section 11: Germ Cell Mutagenicity table heading was added.
Skin Sensitisation Table was added.
Respiratory Sensitisation Table was added.
Section 11: Name table heading was added.
Section 11: Reproductive and/or Developmental table heading was added.
Reproductive Toxicity Table was added.
Section 11: Reproductive Toxicity table heading was added.
Section 11: Respiratory Sensitisation table heading was added.
Section 11: Route table heading was added.
Skin Corrosion/Irritation Table was added.
Section 11: Skin Sensitisation table heading was added.
Section 11: Species table heading was added.
Section 11: Test Result table heading was added.
Section 11: Target Organs table heading was added.
Section 11: Target Organs - Repeated Exposure table heading was added.
Target Organs - Repeated Table was added.
Section 11: Target Organs - Single Exposure table heading was added.
Target Organs - Single Table was added.
Section 11: Toxicological Data heading was added.
Section 11: UN GHS Classification table heading was added.

Section 11: Value table heading was added.
Section 11: Health Effects - Eye information was added.
Section 11: Health Effects - Skin information was added.
Section 11: Health Effects - Inhalation information was added.
Section 11: Health Effects - Ingestion information was added.
Section 11: Skin Corrosion/Irritation table heading was added.
Section 1: Identified uses header was added.
Section 3: Reference to R and H statement explanation in Section 16 was added.
Section 3: Disclosure Statement was added.
Section 12: Classification Warning was added.
Section 12: No PBT/vPvB information available warning was added.
Section 2: 2.1. Classification of the substance or mixture heading was added.
Section 2: 2.2. Label elements heading was added.
Section 2: 2.3. Other hazards heading was added.
Section 2: 2.2 & 2.3. DSD/DPD heading was added.
Section 5: Fire - Extinguishing media information was added.
Section 5: Fire - Special hazards information was added.
Section 5: Fire - Advice for fire fighters information was added.
Section 6: 6.4. Reference to other sections heading was added.
Section 6: Accidental release personal information was added.
Section 6: Accidental release environmental information was added.
Section 6: Accidental release clean-up information was added.
Refer to Section 8 and Section 13 for more information was added.
Section 7: 7.1. Precautions for safe handling header was added.
Section 7: 7.2. Conditions for safe storage including any incompatibilities header was added.
Section 7: 7.3. Specific end use(s) header was added.
Section 7: More information statement was added.
Section 7: Precautions safe handling information was added.
Section 7: Conditions safe storage was added.
Section 8: 8.1. OEL table heading was added.
Section 8: 8.2.2. Personal protective equipment (PPE) heading was added.
Section 8: Personal Protection - Skin/hand information was added.
Section 10: 10.1. Reactivity heading was added.
Section 10: 10.2. Chemical stability heading was added.
Section 10: 10.3. Possibility of hazardous reactions heading was added.
Section 10: 10.4. Conditions to avoid heading was added.
Section 10: 10.5. Incompatible materials heading was added.
Section 10: 10.6 Hazardous decomposition products was added.
Section 10: Hazardous decomposition or by-products table was added.
Section 10.1: Reactivity information was added.
Section 13: 13.1. Waste treatment method heading was added.
Section 13: 13.1. Waste disposal note was added.
Section 13: Standard Phrase Category Waste GHS was added.
Section 4: 4.1. Description of first aid measures heading was added.
Section 4: 4.2. Most important symptoms and effects, both acute and delayed was added.
Section 4: 4.3. Indication of any immediate medical attention and special treatment required heading was added.
Section 4: First aid for eye contact information was added.
Section 4: First aid for skin contact information was added.
Section 4: First aid for inhalation information was added.
Section 4: First aid for ingestion (swallowing) information was added.
Section 4: First Aid –notes to physician (REACH/GHS) was added.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. was added.
Section 16: List of relevant H statements heading was added.
Section 4.4.2. Information on toxicological effects text was added.
Section 8: 8.2. Exposure controls heading was added.

Section 10: 10.6. Hazardous decomposition products table column 1 heading was added.

Section 10: 10.6. Hazardous decomposition products table column 2 heading was added.

Section 15: 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture heading was added.

Section 15: 15.2. Chemical Safety Assessment was added.

A chemical safety assessment has been carried out for the relevant substances in this material by the registrant in accordance with regulation REGULATION (EC) No 1907/2006 was added.

Section 11: Potential effects from eye contact heading was added.

Section 11: Potential effects from skin contact heading was added.

Section 11: Potential effects from inhalation heading was added.

Section 11: Potential effects from ingestion heading was added.

Risk phrase - None was added.

Section 7: Handling heading was deleted.

Company Logo was deleted.

Section 3: Potential effects from eye contact heading was deleted.

Section 3: Potential effects from skin contact heading was deleted.

Section 3: Potential effects from inhalation heading was deleted.

Section 3: Potential effects from ingestion heading was deleted.

Section 4: First aid for eye contact - decontamination - was deleted.

Section 4: First aid for eye contact - medical assistance - was deleted.

Section 5: Extinguishing media information was deleted.

Section 7: Storage heading was deleted.

Section 8: Engineering controls information was deleted.

Section 8: Prevention of swallowing information was deleted.

Section 10: Hazardous decomposition or by-products table was deleted.

Section 13: Waste disposal method heading was deleted.

Section 13: Waste disposal method information was deleted.

Section 4: First aid for skin contact - decontamination - was deleted.

Section 4: First aid for skin contact - medical assistance - was deleted.

Section 4: First aid for inhalation - termination of exposure - was deleted.

Section 4: First aid for inhalation - medical assistance - was deleted.

Section 6: Release measures note was deleted.

Section 3: Ingredient phrase was deleted.

Section 4: First aid for ingestion (swallowing) - none - was deleted.

First Aid text was deleted.

Section 11: Product-based toxicology information comment was deleted.

Section 11: Product-based toxicology information comment heading was deleted.

Section 2 Risk phrases heading was deleted.

Section 5: Unsuitable extinguishing media heading was deleted.

Section 8: Hand Protection heading was deleted.

Section 8: Environmental exposure controls no data available text was deleted.

Section 8: Exposure controls heading was deleted.

Section 8: 8.2.3. Environmental exposure controls heading was deleted.

Section 9: Important health safety and environmental information heading was deleted.

Section 10: Hazardous decomposition products table Condition column header was deleted.

Section 10: Hazardous decomposition products table Substance column header was deleted.

Section 10.1 Conditions to avoid heading was deleted.

Section 10.2 Materials to avoid heading was deleted.

Section 10: Hazardous decomposition products heading was deleted.

Section 16: Restrictions on use heading was deleted.

Section 7: Handling information was deleted.

Section 7: Storage information was deleted.

Section 8: Prevention of swallowing heading was deleted.

Section 8: Eye/face protection information was deleted.

Section 8: Respiratory protection information was deleted.

Section 8: Skin protection information was deleted.

Section 5: Unusual fire and explosion hazard information was deleted.
Section 5: Fire fighting procedures information was deleted.
Section 8: Skin protection - recommended gloves information was deleted.
Section 11: Potential effects from eye contact information was deleted.
Section 11: Potential respiratory effects information was deleted.
Section 11: Potential effects from ingestion information was deleted.
Section 11: Potential effects from skin contact information was deleted.
Section 12: No data available information was deleted.
Section 12: Environmental risk information was deleted.
Section 6: Personal precautions information was deleted.
Section 6: Environmental procedures information was deleted.
Section 6: Methods for cleaning up information was deleted.
Section 8: Hand protection information was deleted.
Section 2: Other hazards heading was deleted.
Section 2: Notes on labelling heading was deleted.
Reference to R phrase explanation in Section 16 was deleted.
Section 16: Restrictions on use was deleted.
Section 2: Special provisions concerning the labelling of certain substances heading was deleted.
Section 8: OEL table agency column heading was deleted.
Section 8: OEL table limit type column heading was deleted.
Section 8: OEL table Ingredient column heading was deleted.
Section 8: OEL table Additional Comments column heading was deleted.

DISCLAIMER: 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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