



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 Clean-Trace Surface Protein Plus

3M Product identification numbers

GH-6205-2278-5 GH-6205-2279-3

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

Microbiological testing

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:

22-9664-8, 22-9639-0, 22-9649-9

TRANSPORTATION INFORMATION

GH-6205-2278-5, GH-6205-2279-3

Not hazardous for transportation

3M Clean-Trace Surface Protein Plus

KIT LABEL

2.2. Label elements

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

Symbols

Xi Irritant.

Contains:

Consult the component labels for disclosable ingredients.

Risk phrases

R36/38 Irritating to eyes and skin.

Safety phrasesNone.

Revision information:

No revision information is available.



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.

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

1.1. Product identifier

Moisturiser for 3M Clean-Trace Surface Protein tests

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

Identified uses

Kit Component

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

This product is not classified as hazardous according to EU Directive 1999/45/EC.

2.2. Label elements

Moisturiser for 3M Clean-Trace Surface Protein tests

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

Symbols None.

Contains:

No ingredients are assigned to the label.

Risk phrases None.

Safety phrases None.

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	
Ethanol	64-17-5	EINECS 200-578-6	3 - 7	F:R11 (EU) Flam. Liq. 2, H225 (CLP)

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

Remove person to fresh air. If you feel unwell, get medical attention.

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

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

Moisturiser for 3M Clean-Trace Surface Protein tests

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide.
Carbon dioxide.

Condition

During combustion.
During combustion.

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

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

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Use personal protective equipment (eg. gloves, respirators...) as required. Avoid breathing dust/fume/gas/mist/vapours/spray. 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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethanol	64-17-5	Health and	TWA:1920 mg/m ³ (1000 ppm)	

Moisturiser for 3M Clean-Trace Surface Protein tests

Safety Comm.
(UK)

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

The following eye protection(s) are recommended: Safety glasses with side shields.

Skin/hand protection

Gloves made from the following material(s) are recommended: Nitrile rubber.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Slight alcohol odour; Colourless
pH	<i>No data available.</i>
Boiling point/boiling range	<i>No data available.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	<i>No data available.</i>
Water solubility	Complete

Moisturiser for 3M Clean-Trace Surface Protein tests

Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	<i>No data available.</i>

9.2. Other information

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

Heat.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
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None known.

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:

Moisturiser for 3M Clean-Trace Surface Protein tests

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Target Organ Effects:

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Additional information:

This product contains ethanol. In IARC published Monograph No. 44, entitled, 'Alcohol Drinking', the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests	Ingestion		No test data available; calculated ATE >5000 mg/kg	Not classified (0% unknown)
Ethanol			No data available	

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests		No test data available; calculated to cause no significant irritation	Not classified
Ethanol	Rabbit	Minimal irritation	Not classified

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS
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Moisturiser for 3M Clean-Trace Surface Protein tests

			Classification
Moisturiser for 3M Clean-Trace Surface Protein tests		No test data available; calculated to cause no significant irritation	Not classified
Ethanol		No data available	

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests		No test data available.	Not classified based on component data
Ethanol		No data available	

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests		No test data available.	Not classified based on component data
Ethanol		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests		No data available	Overall Germ Cell Mutagenicity classification Not classified
Moisturiser for 3M Clean-Trace Surface Protein tests		No test data available.	
Ethanol		No data available	

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests			No test data available.	Category 1A based on component data
Ethanol	Ingestion		Carcinogenic.	Category 1A

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

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests		Toxic to reproduction and/or development				Overall Reproductive Toxicity classification Category 1A

Moisturiser for 3M Clean-Trace Surface Protein tests

						based on component data
Ethanol	Ingestion	Toxic to reproduction and/or development		NOAEL N/A		

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Ethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL N/A		Category 3
Ethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Ethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL N/A		Category 3

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests			No test data available.				Category 1 based on component data
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rabbit	NOAEL N/A		Not classified

Moisturiser for 3M Clean-Trace Surface Protein tests

Ethanol	Ingestion	liver	n Causes damage to organs through prolonged or repeated exposure	Human	NOAEL N/A		Category 1
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Aspiration Hazard

Name	Value	UN GHS Classification
Moisturiser for 3M Clean-Trace Surface Protein tests	No test data available.	Not classified based on component and/or viscosity data
Ethanol	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 3M for more details.

Moisturiser for 3M Clean-Trace Surface Protein tests

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact 3M 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

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

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)

180106* Chemicals consisting of or containing dangerous substances.

SECTION 14: Transportation information

ADR: Not restricted for transport.

IMDG: Not restricted for transport.

IATA: Not restricted for transport.

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Ethanol	64-17-5	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

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 China 36 Measures on Environmental Management of New Chemical Substance³⁶. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional 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 material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for

Moisturiser for 3M Clean-Trace Surface Protein tests

additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. 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

H225 Highly flammable liquid and vapour.

List of relevant R-phrases

R11 Highly flammable.

Revision information:

No revision information is available.

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



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.

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

1.1. Product identifier

Reagent A for 3M Clean-Trace Surface Protein tests (Intermediate)

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

Identified uses

Intermediate

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

Indication of danger

Irritant.

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only**2.2. Label elements****Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive****Symbols**

Xi Irritant.

Contains:

No ingredients are assigned to the label.

Risk phrases

R36/38 Irritating to eyes and skin.

Safety phrases None.**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 Carbonate	497-19-8	EINECS 207-838-8	1 - 5	Xi:R36 (EU) Eye Irrit. 2, H319 (CLP)
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt	979-88-4		< 1	
Sodium Bicarbonate	144-55-8	EINECS 205-633-8	< 1	
Disodium Tartrate Dihydrate	6106-24-7		< 1	
Disodium tetraborate decahydrate	1303-96-4		< 1	Repr.Cat.2:R60; Repr.Cat.2:R61 (EU) Repr. 1B, H360DF (CLP)
Sodium Hydroxide	1310-73-2	EINECS 215-185-5	< 1	C:R35 (EU) Skin Corr. 1A, H314 (CLP)

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

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only

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

Rinse mouth. If you feel unwell, get medical attention.

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

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

5.2. Special hazards arising from the substance or mixture

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

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

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid eye contact.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.3. Specific end use(s)

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only

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

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Disodium tetraborate decahydrate	1303-96-4	Health and Safety Comm. (UK)	TWA:5 mg/m ³	
Sodium Hydroxide	1310-73-2	Health and Safety Comm. (UK)	STEL:2 mg/m ³	

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CELL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

The following eye protection(s) are recommended: Safety glasses with side shields.

Skin/hand protection

Gloves made from the following material(s) are recommended: Nitrile rubber.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Odourless; Transparent Yellow Colour
pH	11.2 - 11.4

Boiling point/boiling range	<i>No data available.</i>
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	<i>No data available.</i>
Water solubility	Complete
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	<i>No data available.</i>

9.2. Other information

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

Heat.

10.5 Incompatible materials

None known.

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

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin contact

Moderate skin irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Inhalation

No health effects are expected.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests	Ingestion		No test data available; calculated ATE >5000 mg/kg	Not classified (0% unknown)
Sodium Carbonate			No data available	
Sodium Bicarbonate			No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt			No data available	
Sodium Hydroxide			No data available	
Disodium tetraborate decahydrate			No data available	
Disodium Tartrate Dihydrate			No data available	

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests		No test data available; calculated to be mild irritant	Category 3
Sodium Carbonate		No data available	
Sodium Bicarbonate		No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt		No data available	
Sodium Hydroxide		No data available	

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only

Disodium tetraborate decahydrate		No data available	
Disodium Tartrate Dihydrate		No data available	

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests		No test data available; calculated to be moderate irritant	Category 2B
Sodium Carbonate		No data available	
Sodium Bicarbonate		No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt		No data available	
Sodium Hydroxide		No data available	
Disodium tetraborate decahydrate		No data available	
Disodium Tartrate Dihydrate		No data available	

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests		No test data available.	Not classified based on component data
Sodium Carbonate		No data available	
Sodium Bicarbonate		No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt		No data available	
Sodium Hydroxide		No data available	
Disodium tetraborate decahydrate		No data available	
Disodium Tartrate Dihydrate		No data available	

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests		No test data available.	Not classified based on component data
Sodium Carbonate		No data available	
Sodium Bicarbonate		No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt		No data available	
Sodium Hydroxide		No data available	
Disodium tetraborate		No data available	

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only

decahydrate			
Disodium Tartrate Dihydrate		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests		No data available	Overall Germ Cell Mutagenicity classification Not classified
Reagent A for 3M Clean-Trace Surface Protein tests		No test data available.	
Sodium Carbonate		No data available	
Sodium Bicarbonate		No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt		No data available	
Sodium Hydroxide		No data available	
Disodium tetraborate decahydrate		No data available	
Disodium Tartrate Dihydrate		No data available	

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests			No test data available.	Not classified based on component data
Sodium Carbonate			No data available	
Sodium Bicarbonate			No data available	
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt			No data available	
Sodium Hydroxide			No data available	
Disodium tetraborate decahydrate			No data available	
Disodium Tartrate Dihydrate			No data available	

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

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests		No test data available.				Not classified based on component data
Sodium Carbonate		No data available				

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only

Sodium Bicarbonate		No data available				
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt		No data available				
Sodium Hydroxide		No data available				
Disodium tetraborate decahydrate	Not specified.	Toxic to reproduction and/or development				
Disodium Tartrate Dihydrate		No data available				

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests			No test data available.				Not classified based on component data
Sodium Carbonate			No data available				
Sodium Bicarbonate			No data available				
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt			No data available				
Sodium Hydroxide			No data available				
Disodium tetraborate decahydrate			No data available				
Disodium Tartrate Dihydrate			No data available				

Reagent A for 3M Clean-Trace Surface Protein tests 3M Internal Use Only

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests			No test data available.				Not classified based on component data
Sodium Carbonate			No data available				
Sodium Bicarbonate			No data available				
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt			No data available				
Sodium Hydroxide			No data available				
Disodium tetraborate decahydrate			No data available				
Disodium Tartrate Dihydrate			No data available				

Aspiration Hazard

Name	Value	UN GHS Classification
Reagent A for 3M Clean-Trace Surface Protein tests	No test data available.	Not classified based on component and/or viscosity data
Sodium Carbonate	Not an aspiration hazard	Not classified
Sodium Bicarbonate	Not an aspiration hazard	Not classified
[2,2'-Biquinoline]-4,4'-dicarboxylic acid, disodium salt	Not an aspiration hazard	Not classified
Sodium Hydroxide	Not an aspiration hazard	Not classified
Disodium tetraborate decahydrate	Not an aspiration hazard	Not classified
Disodium Tartrate Dihydrate	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 3M for more details.

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact 3M 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

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

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)

180106* Chemicals consisting of or containing dangerous substances.

SECTION 14: Transportation information

ADR: Not restricted for transport.
IMDG: Not restricted for transport.
IATA: Not restricted for transport.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. 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

H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H360DF	May damage fertility. May damage the unborn child.

List of relevant R-phrases

R35	Causes severe burns.
R36	Irritating to eyes.
R60	May impair fertility.
R61	May cause harm to the unborn child.

Revision information:

No revision information is available.

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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.

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

1.1. Product identifier

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

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

Identified uses

Kit Component

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

This product is not classified as hazardous according to EU Directive 1999/45/EC.

2.2. Label elements

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

Symbols None.

Contains:

No ingredients are assigned to the label.

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

Risk phrases None.
Safety phrases None.

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	
CuSO4.5H2O	7758-99-8		< 1	Xn:R22 (Self Classified) Acute Tox. 4, H302 (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

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

5.2. Special hazards arising from the substance or mixture

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

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

Avoid eye contact. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

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

The following eye protection(s) are recommended: Safety glasses with side shields.

Skin/hand protection

Skin protection is not required.

Gloves made from the following material(s) are recommended: Nitrile rubber.

Respiratory protection

None required.

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Appearance/Odour	Odourless; Light Blue Transparent Colour
pH	<i>No data available.</i>
Boiling point/boiling range	<i>No data available.</i>
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	1 [Ref Std:WATER=1]
Water solubility	Complete
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	<i>No data available.</i>
Density	<i>No data available.</i>

9.2. Other information

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

Heat.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Oxides of sulphur.	Not specified.

SECTION 11: Toxicological information

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

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 >5000 mg/kg	Not classified (0% unknown)
CuSO ₄ .5H ₂ O	Dermal	Rabbit	LD ₅₀ > 8000 mg/kg	Not classified
CuSO ₄ .5H ₂ O	Ingestion	Rat	LD ₅₀ 960 mg/kg	Category 4

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
CuSO ₄ .5H ₂ O		No data available	

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
CuSO ₄ .5H ₂ O		No data available	

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

CuSO4.5H20		No data available	
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Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
CuSO4.5H20		No data available	

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.	
CuSO4.5H20		No data available	

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
CuSO4.5H20			No data available	

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 component data
CuSO4.5H20		No data available				

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
CuSO4.5H20			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
CuSO4.5H20			No data available				

Aspiration Hazard

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
CuSO ₄ .5H ₂ O	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

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

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.

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

EU waste code (product as sold)

180106* Chemicals consisting of or containing dangerous substances.

SECTION 14: Transportation information

IMDG: Not restricted for transport.

ADR : Not restricted for transport.

IATA: Not restricted for transport.

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 China 36 Measures on Environmental Management of New Chemical Substances³⁶. Certain restrictions may apply. Contact the selling division for additional 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 material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. 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.

List of relevant R-phrases

R22 Harmful if swallowed.

Revision information:

Revision Changes:

Section 3: Composition/ Information of ingredients table was modified.

Company Logo was deleted.

Section 12: Contact 3M for more details information was modified.

Section 1: Address was modified.

Copyright was modified.

Company logo was added.

Telephone header was added.

Company Telephone was added.

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.

3M Reagent B (for 3M Clean-Trace Surface Protein tests)

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.

DISCLAIMER: The information on this Safety Data Sheet is based on 3M's experience and is correct to the best of 3M's knowledge at the date of publication. 3M does not accept 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 United Kingdom MSDSs are available at www.3M.com/uk