Safety Data Sheet

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Document group:	33-5131-9	**Version number:**	2.00
Revision date:	04/02/2025	**Supersedes date:**	08/11/2022

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 Graffiti Remover 3000 (New formulation)

Product Identification Numbers

UU-0014-7298-2	UU-0014-7299-0	UU-0014-7472-3
7100030783	7100030786	7100030784

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

Identified uses
Graffiti Removal

1.3. Details of the supplier of the safety data sheet

Address: 3M Ireland Limited, The Iveagh Building, The Park, Carrickmines, Dublin 18.
Telephone: +353 1 280 3555
E Mail: tox.uk@mmm.com
Website: www.3M.com

1.4. Emergency telephone number
Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture
CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Serious Eye Damage/Eye Irritation, Category 2 - Eye Irrit. 2; H319

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements
CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
WARNING.

Symbols
GHS07 (Exclamation mark) |

Pictograms



HAZARD STATEMENTS:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Notes on labelling
Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004 (not required on industrial label): <5%: Anionic surfactant.

2.3. Other hazards

None known.
This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Dimethyl glutarate	(CAS-No.) 1119-40-0 (EC-No.) 214-277-2	15 - 40	Substance not classified as hazardous
Fatty acids, C16-18 and C18-unsatd., Me esters	(CAS-No.) 67762-38-3 (EC-No.) 267-015-4	10 - 20	Aquatic Chronic 3, H412

Ethyl 3-ethoxypropionate	(CAS-No.) 763-69-9 (EC-No.) 212-112-9	10 - 20	Flam. Liq. 3, H226
Dimethyl adipate	(CAS-No.) 627-93-0 (EC-No.) 211-020-6	5 - 15	Eye Irrit. 2, H319
Dimethyl succinate	(CAS-No.) 106-65-0 (EC-No.) 203-419-9	5 - 15	Eye Irrit. 2, H319
Decanamide, N,N-dimethyl-	(CAS-No.) 14433-76-2 (EC-No.) 238-405-1	<= 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	(CAS-No.) 84961-74-0 (EC-No.) 284-664-9	<= 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
3-butoxypropan-2-ol	(CAS-No.) 5131-66-8 (EC-No.) 225-878-4	<= 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Triethanolamine	(CAS-No.) 102-71-6 (EC-No.) 203-049-8	<= 10	Substance with a national occupational exposure limit
propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (REACH-No.) 01-2119457558-25	<= 10	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

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

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

Skin contact
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact
Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

The most important symptoms and effects based on the CLP classification include:
Irritation to the skin (localized redness, swelling, itching, and dryness). Serious irritation to the eyes (significant redness,

swelling, pain, tearing, and impaired vision).

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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

5.3. Advice for fire-fighters
Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

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/occupational use only. Not for consumer sale or use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not

eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Store in a well-ventilated place. Keep cool. Store away from heat. Store away from acids. Store away from oxidising agents.

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
If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Triethanolamine	102-71-6	Ireland OELs	TWA(8 hours):5 mg/m3	
propan-2-ol	67-63-0	Ireland OELs	TWA(8 hours):200 ppm;STEL(15 minutes):400 ppm	SKIN

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

8.2. Exposure controls

8.2.1. Engineering controls
No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:
Safety glasses with side shields.
Indirect vented goggles.

Applicable Norms/Standards
Use eye protection conforming to EN 166

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective

clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended:

Material	Thickness (mm)	Breakthrough Time
Polymer laminate	No data available	No data available

Applicable Norms/Standards
Use gloves tested to EN 374

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:
Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates
Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

Applicable Norms/Standards
Use a respirator conforming to EN 140 or EN 136
Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless, Light Yellow
Odor	Mild Odour
Odour threshold	*No data available.*
Melting point/freezing point	*No data available.*
Boiling point/boiling range	166 ºC
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Flash point	70 - 80 ºC
Autoignition temperature	*No data available.*
Decomposition temperature	*Not applicable.*
pH	*substance/mixture is non-soluble (in water)*
Kinematic Viscosity	*No data available.*
Water solubility	*No data available.*
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Vapour pressure	*No data available.*
Relative density	0.99 - 1.008
Relative Vapour Density	*No data available.*
Particle Characteristics	*Not applicable.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No data available.*
Evaporation rate	*No data available.*
Percent volatile	*No data available.*

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.
High shear and high temperature conditions
Sparks and/or flames.

10.5 Incompatible materials
Strong oxidising agents.
Drugs, medicines and/or food supplies.

10.6 Hazardous decomposition products

Substance	Condition
Carbon monoxide	Not specified.
Carbon dioxide.	Not specified.
Toxic vapour, gas, particulate.	Not specified.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation
May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin contact
May be harmful in contact with skin. Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye contact
Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

Toxicological Data
If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >2,000 - =5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >5 - =12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Dimethyl glutarate	Dermal	similar compounds	LD50 > 2,000 mg/kg
Dimethyl glutarate	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 11 mg/l
Dimethyl glutarate	Ingestion	similar compounds	LD50 > 5,000 mg/kg
Ethyl 3-ethoxypropionate	Dermal	Rabbit	LD50 4,080 mg/kg
Ethyl 3-ethoxypropionate	Inhalation-Vapour (4 hours)	Rat	LC50 > 14.4 mg/l
Ethyl 3-ethoxypropionate	Ingestion	Rat	LD50 3,200 mg/kg
Dimethyl succinate	Dermal	Rat	LD50 > 2,000 mg/kg
Dimethyl succinate	Ingestion	Rat	LD50 6,892 mg/kg
Dimethyl succinate	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 11 mg/l
Dimethyl adipate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Dimethyl adipate	Ingestion	Rat	LD50 > 5,000 mg/kg
Dimethyl adipate	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 11 mg/l
propan-2-ol	Dermal	Rabbit	LD50 12,870 mg/kg
propan-2-ol	Inhalation-Vapour (4 hours)	Rat	LC50 72.6 mg/l
propan-2-ol	Ingestion	Rat	LD50 4,710 mg/kg
3-butoxypropan-2-ol	Dermal	Rat	LD50 > 2,000 mg/kg
3-butoxypropan-2-ol	Inhalation-Vapour	Rat	LC50 > 8.5 mg/l
3-butoxypropan-2-ol	Ingestion	Rat	LD50 2,124 mg/kg
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	Ingestion	Rat	LD50 > 2,000 mg/kg
Decanamide, N,N-dimethyl-	Dermal	Rat	LD50 > 5,000 mg/kg
Decanamide, N,N-dimethyl-	Ingestion	Rat	LD50 >2000, <5000 mg/kg
Decanamide, N,N-dimethyl-	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 3.6 mg/l
Triethanolamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
Triethanolamine	Ingestion	Rat	LD50 9,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Dimethyl glutarate	similar compounds	No significant irritation
Ethyl 3-ethoxypropionate	Rabbit	No significant irritation
Dimethyl succinate	Rabbit	No significant irritation
Dimethyl adipate	Rabbit	No significant irritation
propan-2-ol	Multiple animal species	No significant irritation
3-butoxypropan-2-ol	Rabbit	Mild irritant
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	In vitro data	Irritant
Decanamide, N,N-dimethyl-	Rabbit	Irritant
Triethanolamine	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Dimethyl glutarate	similar compounds	Mild irritant
Ethyl 3-ethoxypropionate	Rabbit	Mild irritant
Dimethyl succinate	Rabbit	Moderate irritant
Dimethyl adipate	Rabbit	Moderate irritant
propan-2-ol	Rabbit	Severe irritant
3-butoxypropan-2-ol	Rabbit	Severe irritant
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	In vitro data	Severe irritant
Decanamide, N,N-dimethyl-	Rabbit	Severe irritant
Triethanolamine	Rabbit	Mild irritant

Skin Sensitisation

Name	Species	Value
Dimethyl glutarate	similar compounds	Not classified
Ethyl 3-ethoxypropionate	Guinea pig	Not classified
Dimethyl succinate	Mouse	Not classified
Dimethyl adipate	similar compounds	Not classified
propan-2-ol	Guinea pig	Not classified
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	Guinea pig	Not classified
Triethanolamine	Human	Not classified

Respiratory Sensitisation

For the component/components, either no data is currently available or the data is not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Dimethyl glutarate	In vivo	Not mutagenic
Dimethyl glutarate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethyl 3-ethoxypropionate	In Vitro	Not mutagenic

Dimethyl succinate	In Vitro	Not mutagenic
Dimethyl adipate	In Vitro	Some positive data exist, but the data are not sufficient for classification
propan-2-ol	In Vitro	Not mutagenic
propan-2-ol	In vivo	Not mutagenic
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	In Vitro	Not mutagenic
Decanamide, N,N-dimethyl-	In Vitro	Not mutagenic
Triethanolamine	In Vitro	Not mutagenic
Triethanolamine	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
propan-2-ol	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Triethanolamine	Dermal	Multiple animal species	Not carcinogenic
Triethanolamine	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Dimethyl glutarate	Inhalation	Not classified for development	Rabbit	NOAEL 1 mg/l	during gestation
propan-2-ol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	2 generation
propan-2-ol	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
propan-2-ol	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis
propan-2-ol	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
Decanamide, N,N-dimethyl-	Ingestion	Not classified for female reproduction	Rat	NOAEL 625 mg/kg/day	2 generation
Decanamide, N,N-dimethyl-	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	2 generation
Decanamide, N,N-dimethyl-	Ingestion	Not classified for development	Rat	NOAEL 252 mg/kg/day	2 generation
Triethanolamine	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dimethyl glutarate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
Dimethyl succinate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
Dimethyl adipate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
propan-2-ol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

propan-2-ol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
propan-2-ol	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
propan-2-ol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Decanamide, N,N-dimethyl-	Inhalation	respiratory irritation	May cause respiratory irritation	Professional judgement	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Dimethyl glutarate	Inhalation	endocrine system | respiratory system | hematopoietic system | liver | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 0.4 mg/l	90 days
Ethyl 3-ethoxypropionate	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	90 days
Ethyl 3-ethoxypropionate	Inhalation	nervous system | heart | liver | immune system | kidney and/or bladder	Not classified	Rat	NOAEL 6 mg/l	17 days
Ethyl 3-ethoxypropionate	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	17 days
Ethyl 3-ethoxypropionate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Ethyl 3-ethoxypropionate	Ingestion	kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	17 days
Dimethyl succinate	Inhalation	respiratory system | heart | skin | endocrine system | gastrointestinal tract | hematopoietic system | liver | immune system | muscles | nervous system | eyes | kidney and/or bladder | vascular system	Not classified	Rat	NOAEL 1 mg/l	90 days
Dimethyl adipate	Inhalation	respiratory system | hematopoietic system | liver | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 0.4 mg/l	90 days
propan-2-ol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
propan-2-ol	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
propan-2-ol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	12 weeks
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.,	Ingestion	gastrointestinal tract | kidney and/or	Some positive data exist, but the data are not sufficient for	similar compoun	NOAEL 340 mg/kg/day	26 weeks

compds. with 2-propanamine		bladder	classification	ds		
Triethanolamine	Dermal	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,000 mg/kg/day	2 years
Triethanolamine	Dermal	liver	Not classified	Mouse	NOAEL 4,000 mg/kg/day	13 weeks
Triethanolamine	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 1,000 mg/kg/day	2 years
Triethanolamine	Ingestion	liver	Not classified	Guinea pig	NOAEL 1,600 mg/kg/day	24 weeks

Aspiration Hazard
For the component/components, either no data is currently available or the data is not sufficient for classification.

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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
Dimethyl glutarate	1119-40-0	Bacteria	Experimental	18 hours	EC10	62.5 mg/l
Dimethyl glutarate	1119-40-0	Bluegill	Experimental	96 hours	LC50	30.9 mg/l
Dimethyl glutarate	1119-40-0	Green algae	Experimental	72 hours	EC50	>85 mg/l
Dimethyl glutarate	1119-40-0	Green algae	Experimental	72 hours	NOEC	36 mg/l
Ethyl 3-ethoxypropionate	763-69-9	Activated sludge	Experimental	5 hours	EC50	>5,000 mg/l
Ethyl 3-ethoxypropionate	763-69-9	Fathead minnow	Experimental	96 hours	LC50	45.3 mg/l
Ethyl 3-ethoxypropionate	763-69-9	Green algae	Experimental	72 hours	EC50	>86 mg/l
Ethyl 3-ethoxypropionate	763-69-9	Water flea	Experimental	48 hours	EC50	>92 mg/l
Ethyl 3-ethoxypropionate	763-69-9	Green algae	Experimental	72 hours	NOEC	86 mg/l
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Green algae	Endpoint not reached	72 hours	EC50	>100 mg/l
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l

Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Green algae	Experimental	72 hours	NOEL	<1 mg/l
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Bacteria	Experimental	16 hours	EC0	5,250 mg/l
Dimethyl adipate	627-93-0	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Dimethyl adipate	627-93-0	Water flea	Experimental	48 hours	EC50	72 mg/l
Dimethyl adipate	627-93-0	Green algae	Experimental	72 hours	NOEC	12.5 mg/l
Dimethyl succinate	106-65-0	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Dimethyl succinate	106-65-0	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Dimethyl succinate	106-65-0	Water flea	Experimental	48 hours	EC50	>100 mg/l
Dimethyl succinate	106-65-0	Zebra Fish	Experimental	96 hours	LC50	50 mg/l
Dimethyl succinate	106-65-0	Green algae	Experimental	72 hours	NOEC	100 mg/l
3-butoxypropan-2-ol	5131-66-8	Green algae	Experimental	96 hours	EC50	>1,000 mg/l
3-butoxypropan-2-ol	5131-66-8	Guppy	Experimental	96 hours	LC50	>560 mg/l
3-butoxypropan-2-ol	5131-66-8	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
3-butoxypropan-2-ol	5131-66-8	Green algae	Experimental	96 hours	NOEC	560 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Green algae	Experimental	72 hours	ErC50	>80 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Rainbow trout	Experimental	96 hours	LC50	6.8 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Water flea	Experimental	48 hours	EC50	7.1 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Duckweed	Analogous Compound	7 days	ErC10	0.21 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Rainbow trout	Analogous Compound	72 days	NOEC	0.23 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Water flea	Analogous Compound	21 days	NOEC	1.18 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Green algae	Experimental	72 hours	NOEC	7.5 mg/l
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Activated sludge	Experimental	3 hours	EC50	220 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Green algae	Analogous Compound	72 hours	ErC50	16.06 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Water flea	Analogous Compound	48 hours	LC50	7.7 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Zebra Fish	Analogous Compound	96 hours	LC50	14.8 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Green algae	Analogous Compound	72 hours	ErC10	4.17 mg/l

Decanamide, N,N-dimethyl-	14433-76-2	Water flea	Experimental	21 days	NOEC	0.079 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Zebra Fish	Experimental	35 days	NOEC	0.71 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Activated sludge	Analogous Compound	3 hours	EC50	212.3 mg/l
Decanamide, N,N-dimethyl-	14433-76-2	Redworm	Experimental	14 days	LC50	1,032.1 mg/kg (Dry Weight)
Decanamide, N,N-dimethyl-	14433-76-2	Soil microbes	Experimental	28 days	EC50	2,290 mg/kg (Dry Weight)
propan-2-ol	67-63-0	Bacteria	Experimental	16 hours	LOEC	1,050 mg/l
propan-2-ol	67-63-0	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
propan-2-ol	67-63-0	Invertebrate	Experimental	24 hours	LC50	>10,000 mg/l
propan-2-ol	67-63-0	Medaka	Experimental	96 hours	LC50	>100 mg/l
propan-2-ol	67-63-0	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
propan-2-ol	67-63-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
propan-2-ol	67-63-0	Water flea	Experimental	21 days	NOEC	100 mg/l
Triethanolamine	102-71-6	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
Triethanolamine	102-71-6	Fathead minnow	Experimental	96 hours	LC50	11,800 mg/l
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	ErC50	512 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	48 hours	EC50	609.98 mg/l
Triethanolamine	102-71-6	Green algae	Experimental	72 hours	ErC10	26 mg/l
Triethanolamine	102-71-6	Water flea	Experimental	21 days	NOEC	16 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Dimethyl glutarate	1119-40-0	Experimental Biodegradation	14 days	BOD	90 %BOD/ThOD	OECD 301C - MITI test (I)
Ethyl 3-ethoxypropionate	763-69-9	Experimental Biodegradation	18 days	CO2 evolution	100 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Ethyl 3-ethoxypropionate	763-69-9	Experimental Photolysis		Photolytic half-life (in air)	1.2 days (t 1/2)	
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Experimental Biodegradation	29 days	CO2 evolution	75 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Dimethyl adipate	627-93-0	Analogous Compound Biodegradation	28 days	Dissolv. Organic Carbon Deplet	97 %removal of DOC	ISO 7827 Ready Ult Aer Biodeg
Dimethyl succinate	106-65-0	Experimental Biodegradation	28 days	CO2 evolution	74.1 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
3-butoxypropan-2-ol	5131-66-8	Experimental Biodegradation	28 days	BOD	89 %BOD/ThOD	OECD 301C - MITI test (I)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Experimental Biodegradation	28 days	CO2 evolution	87.35 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Decanamide, N,N-dimethyl-	14433-76-2	Analogous Compound Biodegradation	28 days	CO2 evolution	86 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Decanamide, N,N-dimethyl-	14433-76-2	Experimental		Hydrolytic half-life	>1 years (t 1/2)	EPA N 161-1 Hydrolysis

		Hydrolysis				
Decanamide, N,N-dimethyl-	14433-76-2	Experimental Soil Metabolism Aerobic		Half-life (t 1/2)	0.27 days (t 1/2)	
propan-2-ol	67-63-0	Experimental Biodegradation	14 days	BOD	86 %BOD/ThOD	OECD 301C - MITI test (I)
Triethanolamine	102-71-6	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	96 %removal of DOC	similar to OECD 301E

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Dimethyl glutarate	1119-40-0	Experimental Bioconcentration		Log Kow	0.49	
Ethyl 3-ethoxypropionate	763-69-9	Experimental Bioconcentration		Log Kow	1.35	OECD 117 log Kow HPLC method
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Experimental Bioconcentration		Log Kow	> 6.2	OECD 117 log Kow HPLC method
Dimethyl adipate	627-93-0	Experimental Bioconcentration		Log Kow	1.4	OECD 117 log Kow HPLC method
Dimethyl succinate	106-65-0	Experimental Bioconcentration		Log Kow	0.33	OECD 117 log Kow HPLC method
3-butoxypropan-2-ol	5131-66-8	Experimental Bioconcentration		Log Kow	1.2	
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Analogous Compound BCF - Fish	192 hours	Bioaccumulation factor	987	OECD305-Bioconcentration
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Experimental Bioconcentration		Log Kow	>0.51	EC A.8 Partition Coefficient
Decanamide, N,N-dimethyl-	14433-76-2	Modeled Bioconcentration		Log Kow	3.4	Episuite™
propan-2-ol	67-63-0	Experimental Bioconcentration		Log Kow	0.05	
Triethanolamine	102-71-6	Experimental BCF - Fish	42 days	Bioaccumulation factor	<3.9	similar to OECD 305

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Fatty acids, C16-18 and C18-unsatd., Me esters	67762-38-3	Experimental Mobility in Soil	Koc	> 4.27E+05 l/kg	OECD 121 Estim. of Koc by HPLC
Dimethyl adipate	627-93-0	Modeled Mobility in Soil	Koc	10 l/kg	Episuite™
Dimethyl succinate	106-65-0	Modeled Mobility in Soil	Koc	10 l/kg	Episuite™
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., compds. with 2-propanamine	84961-74-0	Analogous Compound Mobility in Soil	Koc	2,500 l/kg	
Decanamide, N,N-dimethyl-	14433-76-2	Experimental Mobility in Soil	Koc	351	

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.

This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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)
070604* Other organic solvents, washing liquids and mother liquors

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.

Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.
ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient	CAS Nbr	Classification	Regulation
Triethanolamine	102-71-6	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status
Contact 3M for more information.

DIRECTIVE 2012/18/EU
Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012
No chemicals listed

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:
EU Section 09: pH information information was modified.
Label: CLP Classification information was modified.
Label: CLP Environmental Hazard Statements information was added.
Label: CLP Percent Unknown information was deleted.
Section 3: Composition/ Information of ingredients table information was modified.
Section 04: First Aid - Symptoms and Effects (CLP) information was added.
Section 04: Information on toxicological effects information was modified.
Section 5: Fire - Advice for fire fighters information information was modified.
Section 5: Fire - Extinguishing media information information was modified.
Section 5: Fire - Special hazards information information was modified.
Section 6: Accidental release clean-up information information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 7: Precautions safe handling information information was modified.
Section 8: Appropriate Engineering controls information information was modified.
Section 8: Eye/face protection information information was modified.
Section 8: glove data value information was modified.
Section 8: Occupational exposure limit table information was modified.
Section 8: Personal Protection - Skin/hand information information was modified.
Section 8: Respiratory protection - recommended respirators information information was modified.
Section 9: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 9: Flash point information information was modified.
Section 09: Odor information was modified.
Section 09: Particle Characteristics N/A information was added.
Section 9: Relative density information information was modified.
Section 10: Hazardous decomposition or by-products table information was modified.
Section 10: Materials to avoid physical property information was modified.
Section 11: Acute Toxicity table information was modified.
Section 11: Cancer Hazards information information was deleted.
Section 11: Carcinogenicity Table information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: Health Effects - Ingestion information information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 11: Health Effects - Skin information information was modified.
Section 11: Prolonged or repeated exposure may cause standard phrases information was deleted.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Single exposure may cause standard phrases information was deleted.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 15: Carcinogenicity information information was modified.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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