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 Marine Vinyl Cleaner, Conditioner and Protector, 09023

Product Identification Numbers

60-4550-3519-0	UU-0031-6469-4	UU-0031-6521-2
7100005994	7100077760	7100082481

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

Identified uses

Marine

1.3. Details of the supplier of the safety data sheet

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.
Telephone: +44 (0)1344 858 000
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

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 Sensitization, Category 1 - Skin Sens. 1; H317
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

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) |GHS09 (Environment) |

Pictograms

Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	225-208-0	< 0.5

HAZARD STATEMENTS:

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS
General:

P102	Keep out of reach of children.

Prevention:

P280E	Wear protective gloves.

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

4% of the mixture consists of components of unknown acute oral toxicity.

Contains 3% of components with unknown hazards to the aquatic environment.

Notes on labelling
Updated per Regulation (EC) No. 648/2004 on detergents.
Ingredients required per 648/2004 (not required on industrial label): <5%: Cationic surfactants, non-ionic surfactants.
Contains: Tris(n-hydroxyethyl) hexahydrotriazine.

2.3. Other hazards

Contains a substance that meets the criteria for PBT according to Regulation (EC) No 1907/2006, Annex XIII Contains a substance that meets the criteria for vPvB according to Regulation (EC) No 1907/2006, Annex XIII

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]
Water	Mixture	60 - 90	Substance not classified as hazardous
Polyoxyethylene tridecyl ether	(CAS-No.) 24938-91-8	0.5 - 1.5	Substance not classified as hazardous
Poly(dimethylsiloxane)	(CAS-No.) 63148-62-9	7 - 13	Substance not classified as hazardous
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	(CAS-No.) 6197-30-4 (EC-No.) 228-250-8	< 0.6	Aquatic Chronic 1, H410,M=10
Silsesquioxanes, 3-[(2-aminoethyl)amino]propyl, polymers with di-Me siloxanes, hydroxy-terminated	(CAS-No.) 68554-54-1	1 - 5	Substance not classified as hazardous
Alcohols, C11-14-iso-, C13-rich, ethoxylated	(CAS-No.) 78330-21-9	< 5	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
octamethylcyclotetrasiloxane	(CAS-No.) 556-67-2 (EC-No.) 209-136-7 (REACH-No.) 01-2119529238-36	< 0.5	Repr. 2, H361f Aquatic Chronic 1, H410,M=10 Flam. Liq. 3, H226
1-methoxy-2-propanol	(CAS-No.) 107-98-2 (EC-No.) 203-539-1	1 - 5	Flam. Liq. 3, H226 STOT SE 3, H336
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	(CAS-No.) 4719-04-4 (EC-No.) 225-208-0	< 0.5	Acute Tox. 4, H302 Skin Sens. 1, H317
Triethanolamine	(CAS-No.) 102-71-6 (EC-No.) 203-049-8 (REACH-No.) 01-2119486482-31	1 - 5	Substance not classified as hazardous
Decamethylcyclopentasiloxane	(CAS-No.) 541-02-6 (EC-No.) 208-764-9	< 0.2	Aquatic Chronic 4, H413
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	(CAS-No.) 112-02-7 (EC-No.) 203-928-6	< 0.1	Aquatic Acute 1, H400,M=100 Aquatic Chronic 1, H410,M=1

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

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	(CAS-No.) 4719-04-4 (EC-No.) 225-208-0	(C >= 0.1%) Skin Sens. 1, H317

Alcohols, C11-14-iso-, C13-rich, ethoxylated	(CAS-No.) 78330-21-9	(C >= 10%) Eye Dam. 1, H318 (5% =< C < 10%) Eye Irrit. 2, H319

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
Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
Material will not burn. Non-combustible. Use a fire fighting agent suitable for surrounding fire. Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
formaldehyde	During combustion.
Carbon monoxide	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	During combustion.

5.3. Advice for fire-fighters
No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Evacuate area. 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. 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. 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. 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. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. 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
Keep out of reach of children. Do not handle until all safety precautions have been read and understood. 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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators…) as required.

7.2. Conditions for safe storage including any incompatibilities
Keep from freezing.

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
1-methoxy-2-propanol	107-98-2	UK HSC	TWA: 375 mg/m³ (100 ppm); STEL: 560 mg/m³ (150 ppm)	SKIN

UK HSC : UK Health and Safety Commission
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 UK HSC

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

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.

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

Material	Thickness (mm)	Breakthrough Time
Neoprene.	No data available	No data available
Nitrile rubber.	No data available	No data available

Applicable Norms/Standards
Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Neoprene apron.

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

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: filter type A

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Viscous.
Colour	Off-White
Odor	Slight Odor
Odour threshold	*No data available.*
Melting point/freezing point	*No data available.*
Boiling point/boiling range	100 ºC

Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	*Not applicable.*
Flammable Limits(UEL)	*Not applicable.*
Flash point	No flash point
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
pH	7.5 - 8.5 Units not available or not applicable.
Kinematic Viscosity	40,000 mm²/sec
Water solubility	Complete
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*Not applicable.*
Vapour pressure	*No data available.*
Density	1 g/ml
Relative density	approximately 1 [*Ref Std:*WATER=1]
Relative Vapour Density	*No data available.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No data available.*
Evaporation rate	*No data available.*
Percent volatile	82.8 % weight

SECTION 10: Stability and reactivity

10.1 Reactivity
This material is considered to be non reactive under normal use conditions

10.2 Chemical stability
Stable.

10.3 Possibility of hazardous reactions
Hazardous polymerisation will not occur.

10.4 Conditions to avoid
None known.

10.5 Incompatible materials
None known.

10.6 Hazardous decomposition products

Substance	**Condition**
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

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 cause additional health effects (see below).

Skin contact
Contact with the skin during product use is not expected to result in significant irritation. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

Ingestion
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

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 >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Poly(dimethylsiloxane)	Dermal	Rabbit	LD50 > 19,400 mg/kg
Poly(dimethylsiloxane)	Ingestion	Rat	LD50 > 17,000 mg/kg
1-methoxy-2-propanol	Dermal	Rabbit	LD50 11,000-13,800 mg/kg
1-methoxy-2-propanol	Inhalation-Vapour (4 hours)	Rat	LC50 56 mg/l
1-methoxy-2-propanol	Ingestion	Rat	LD50 6,100 mg/kg
Triethanolamine	Dermal	Rabbit	LD50 > 2,000 mg/kg
Triethanolamine	Ingestion	Rat	LD50 9,000 mg/kg
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Dermal		LD50 estimated to be > 5,000 mg/kg
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	Rat	LD50 > 5,000 mg/kg
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Ingestion	Rat	LD50 1,350 mg/kg
octamethylcyclotetrasiloxane	Dermal	Rat	LD50 > 2,400 mg/kg
octamethylcyclotetrasiloxane	Inhalation-Dust/Mist (4 hours)	Rat	LC50 36 mg/l
octamethylcyclotetrasiloxane	Ingestion	Rat	LD50 > 5,000 mg/kg
Decamethylcyclopentasiloxane	Dermal	Rabbit	LD50 > 15,000 mg/kg
Decamethylcyclopentasiloxane	Inhalation-Dust/Mist (4 hours)	Rat	LC50 8.7 mg/l
Decamethylcyclopentasiloxane	Ingestion	Rat	LD50 > 24,134 mg/kg
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	Dermal		estimated to be > 5,000 mg/kg
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	Ingestion		estimated to be 300 - 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Poly(dimethylsiloxane)	Rabbit	No significant irritation
1-methoxy-2-propanol	Not available	Minimal irritation
Triethanolamine	Rabbit	Minimal irritation
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Rabbit	Minimal irritation
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Rabbit	Mild irritant
octamethylcyclotetrasiloxane	Rabbit	Minimal irritation
Decamethylcyclopentasiloxane	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Poly(dimethylsiloxane)	Rabbit	No significant irritation
1-methoxy-2-propanol	Not available	Mild irritant
Triethanolamine	Rabbit	Mild irritant
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	similar health hazards	Mild irritant
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Rabbit	Corrosive
octamethylcyclotetrasiloxane	Rabbit	No significant irritation
Decamethylcyclopentasiloxane	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
1-methoxy-2-propanol	Guinea pig	Not classified
Triethanolamine	Human	Not classified
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Guinea pig	Not classified
Alcohols, C11-14-iso-, C13-rich, ethoxylated	Human	Not classified
octamethylcyclotetrasiloxane	Human and animal	Not classified
Decamethylcyclopentasiloxane	Mouse	Not classified

Photosensitisation

Name	Species	Value
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Guinea pig	Not sensitising

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
1-methoxy-2-propanol	In Vitro	Not mutagenic
Triethanolamine	In Vitro	Not mutagenic
Triethanolamine	In vivo	Not mutagenic
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	In Vitro	Not mutagenic
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	In vivo	Not mutagenic
octamethylcyclotetrasiloxane	In Vitro	Some positive data exist, but the data are not sufficient for classification

Decamethylcyclopentasiloxane	In Vitro	Not mutagenic
Decamethylcyclopentasiloxane	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
1-methoxy-2-propanol	Inhalation	Multiple animal species	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
Decamethylcyclopentasiloxane	Inhalation	Rat	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
1-methoxy-2-propanol	Inhalation	Not classified for male reproduction	Rat	NOAEL 11 mg/l	2 generation
1-methoxy-2-propanol	Ingestion	Not classified for female reproduction	Mouse	NOAEL 3,328 mg/kg/day	2 generation
1-methoxy-2-propanol	Inhalation	Not classified for female reproduction	Rat	NOAEL 3.7 mg/l	2 generation
1-methoxy-2-propanol	Ingestion	Not classified for male reproduction	Mouse	NOAEL 3,328 mg/kg	2 generation
1-methoxy-2-propanol	Ingestion	Not classified for development	Rat	NOAEL 370 mg/kg	during gestation
1-methoxy-2-propanol	Inhalation	Not classified for development	Rat	NOAEL 3.7 mg/l	2 generation
Triethanolamine	Ingestion	Not classified for development	Mouse	NOAEL 1,125 mg/kg/day	during organogenesis
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during organogenesis
octamethylcyclotetrasiloxane	Inhalation	Not classified for male reproduction	Rat	NOAEL 8.5 mg/l	2 generation
octamethylcyclotetrasiloxane	Ingestion	Toxic to female reproduction	Rabbit	NOAEL 50 mg/kg/day	during organogenesis
octamethylcyclotetrasiloxane	Inhalation	Toxic to female reproduction	Rat	NOAEL 3.6 mg/l	2 generation
Decamethylcyclopentasiloxane	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.43 mg/l	2 generation
Decamethylcyclopentasiloxane	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.43 mg/l	2 generation
Decamethylcyclopentasiloxane	Inhalation	Not classified for development	Rat	NOAEL 2.43 mg/l	2 generation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1-methoxy-2-propanol	Dermal	central nervous system depression	Not classified	Rabbit	NOAEL 1,800 mg/kg	13 weeks
1-methoxy-2-propanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	

2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1-methoxy-2-propanol	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 1,800 mg/kg/day	13 weeks
1-methoxy-2-propanol	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 1,000 mg/kg/day	3 weeks
1-methoxy-2-propanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.7 mg/l	13 weeks
1-methoxy-2-propanol	Inhalation	liver	Not classified	Rat	NOAEL 11 mg/l	13 weeks
1-methoxy-2-propanol	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 2.2 mg/l	10 days
1-methoxy-2-propanol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 920 mg/kg/day	13 weeks
1-methoxy-2-propanol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 920 mg/kg/day	13 weeks
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
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 534 mg/kg/day	13 weeks
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,085 mg/kg	90 days
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	Ingestion	blood | liver | kidney and/or bladder	Not classified	Rabbit	NOAEL 1,085 mg/kg/day	13 weeks
octamethylcyclotetrasiloxane	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 960 mg/kg/day	3 weeks
octamethylcyclotetrasiloxane	Inhalation	liver	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
octamethylcyclotetrasiloxane	Inhalation	endocrine system | immune system | kidney and/or bladder	Not classified	Rat	NOAEL 8.5 mg/l	2 generation
octamethylcyclotetrasiloxane	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 8.5 mg/l	13 weeks
octamethylcyclotetrasiloxane	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg/day	2 weeks
Decamethylcyclopentasiloxane	Dermal	hematopoietic system | eyes	Not classified	Rat	NOAEL 1,600 mg/kg/day	28 days
Decamethylcyclopentasiloxane	Inhalation	hematopoietic system | respiratory system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 2.42 mg/l	2 years
Decamethylcyclopentasilo	Ingestion	liver | immune	Not classified	Rat	NOAEL	90 days

xane		system | respiratory system | heart | hematopoietic system | kidney and/or bladder			1,000 mg/kg/day	

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
Polyoxyethylene tridecyl ether	24938-91-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Poly(dimethylsiloxane)	63148-62-9	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Activated sludge	Experimental	30 minutes	NOEC	1,000 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Golden Orfe	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Water flea	Experimental	21 days	NOEC	0.00266 mg/l
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	Activated sludge	Experimental	30 minutes	EC50	550 mg/l
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	Green algae	Experimental	72 hours	EC50	6.66 mg/l
2,2',2''-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	Water flea	Experimental	48 hours	EC50	11.9 mg/l

2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	Zebra Fish	Experimental	96 hours	LC50	16.07 mg/l
2,2',2"-(hexahydro-1,3,5- triazine-1,3,5-triyl)triethanol	4719-04-4	Green algae	Experimental	72 hours	NOEC	1.56 mg/l
1-methoxy-2-propanol	107-98-2	Activated sludge	Experimental	3 hours	IC50	>1,000 mg/l
1-methoxy-2-propanol	107-98-2	Activated sludge	Experimental	16 hours	EC50	>5,000 mg/l
1-methoxy-2-propanol	107-98-2	Algae or other aquatic plants	Experimental	72 hours	EC50	6,745 mg/l
1-methoxy-2-propanol	107-98-2	Golden Orfe	Experimental	96 hours	LC50	6,812 mg/l
1-methoxy-2-propanol	107-98-2	Green algae	Experimental	96 hours	EC50	>1,000 mg/l
1-methoxy-2-propanol	107-98-2	Water flea	Experimental	48 hours	EC50	23,300 mg/l
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Fathead minnow	Analogous Compound	96 hours	LC50	4.5 mg/l
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Green algae	Analogous Compound	72 hours	EC50	0.5 mg/l
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Water flea	Analogous Compound	48 hours	EC50	0.5 mg/l
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Algae or other aquatic plants	Analogous Compound	72 hours	EC10	>0.1 mg/l
octamethylcyclotetrasiloxane	556-67-2	Blackworm	Experimental	28 days	NOEC	0.73 mg/kg (Dry Weight)
octamethylcyclotetrasiloxane	556-67-2	Midge	Experimental	14 days	LC50	>170 mg/kg (Dry Weight)
octamethylcyclotetrasiloxane	556-67-2	Mysid Shrimp	Experimental	96 hours	LC50	>0.0091 mg/l
octamethylcyclotetrasiloxane	556-67-2	Rainbow trout	Experimental	96 hours	LC50	>0.022 mg/l
octamethylcyclotetrasiloxane	556-67-2	Water flea	Experimental	48 hours	EC50	>0.015 mg/l
octamethylcyclotetrasiloxane	556-67-2	Rainbow trout	Experimental	93 days	NOEC	0.0044 mg/l
octamethylcyclotetrasiloxane	556-67-2	Water flea	Experimental	21 days	NOEC	0.015 mg/l
octamethylcyclotetrasiloxane	556-67-2	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l
Silsesquioxanes, 3-[(2-aminoethyl)amino]propyl, polymers with di-Me siloxanes, hydroxy-terminated	68554-54-1	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
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
Decamethylcyclopentasiloxane	541-02-6	Activated sludge	Experimental	3 hours	EC50	>2,000 mg/l
Decamethylcyclopentasiloxane	541-02-6	Green algae	Experimental	96 hours	ErC50	>100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Water flea	Experimental	48 hours	EC50	>100 mg/l

Decamethylcyclopentasiloxane	541-02-6	Green algae	Experimental	96 hours	NOEC	100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Rainbow trout	Experimental	90 days	NOEC	100 mg/l
Decamethylcyclopentasiloxane	541-02-6	Water flea	Experimental	21 days	NOEC	100 mg/l
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Green algae	Analogous Compound	72 hours	EC50	0.00411 mg/l
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Water flea	Analogous Compound	48 hours	EC50	0.0924 mg/l
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Zebra Fish	Experimental	96 hours	LC50	0.21 mg/l
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Green algae	Analogous Compound	72 hours	EC10	0.00227 mg/l
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Water flea	Analogous Compound	21 days	NOEC	0.023 mg/l
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Bacteria	Experimental	16 hours	EC50	3.2 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Polyoxyethylene tridecyl ether	24938-91-8	Experimental Biodegradation	28 days	CO2 evolution	>60 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Poly(dimethylsiloxane)	63148-62-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Experimental Biodegradation	28 days	BOD	0 %BOD/ThOD	EC C.4.D. Manometric Respirom
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	Experimental Biodegradation	14 days	BOD	92 %BOD/ThOD	OECD 301C - MITI test (I)
1-methoxy-2-propanol	107-98-2	Experimental Biodegradation	28 days	BOD	90 %BOD/ThOD	OECD 301C - MITI test (I)
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Experimental Biodegradation	28 days	CO2 evolution	≥50 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
octamethylcyclotetrasiloxane	556-67-2	Experimental Biodegradation	29 days	CO2 evolution	3.7 %CO2 evolution/THCO2 evolution	OECD 310 CO2 Headspace
octamethylcyclotetrasiloxane	556-67-2	Experimental Photolysis		Photolytic half-life (in air)	31 days (t 1/2)	
octamethylcyclotetrasiloxane	556-67-2	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	69.3-144 hours (t 1/2)	OECD 111 Hydrolysis func of pH
Silsesquioxanes, 3-[(2-aminoethyl)amino]propyl, polymers with di-Me siloxanes, hydroxy-terminated	68554-54-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Triethanolamine	102-71-6	Experimental Biodegradation	19 days	Dissolv. Organic Carbon Deplet	96 %removal of DOC	similar to OECD 301E
Decamethylcyclopentasiloxane	541-02-6	Experimental Biodegradation	28 days	CO2 evolution	0.14 %CO2 evolution/THCO2 evolution	OECD 310 CO2 Headspace
Decamethylcyclopentasiloxane	541-02-6	Experimental Photolysis		Photolytic half-life (in air)	20.4 days (t 1/2)	
Decamethylcyclopentasiloxane	541-02-6	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	66 days (t 1/2)	
PALMITYLTRIMETHYLAMMONIUM CHLORIDE	112-02-7	Experimental Biodegradation	28 days	CO2 evolution	93.5 %CO2 evolution/THC	OECD 301B - Modified sturm or CO2

					O2 evolution	
PALMITYLTRIMETHYL AMMONIUM CHLORIDE	112-02-7	Analogous Compound Biodegradation	40 days	Percent degraded	>99.98 %degraded	OECD 303A - Simulated Aerobic
PALMITYLTRIMETHYL AMMONIUM CHLORIDE	112-02-7	Analogous Compound Hydrolysis		Hydrolytic half-life	>33 days (t 1/2)	
PALMITYLTRIMETHYL AMMONIUM CHLORIDE	112-02-7	Analogous Compound Soil Inherent Biodegradability	70 days	CO2 evolution	64 %CO2 evolution/THC O2 evolution	

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Polyoxyethylene tridecyl ether	24938-91-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(dimethylsiloxane)	63148-62-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Experimental BCF - Fish	28 days	Bioaccumulation factor	887	OECD305-Bioconcentration
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Experimental Bioconcentration		Log Kow	6.1	EC A.8 Partition Coefficient
2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol	4719-04-4	Experimental Bioconcentration		Log Kow	-2	
1-methoxy-2-propanol	107-98-2	Experimental Bioconcentration		Log Kow	-0.437	
Alcohols, C11-14-iso-, C13-rich, ethoxylated	78330-21-9	Experimental BCF - Fish	54 hours	Bioaccumulation factor	232	
octamethylcyclotetrasiloxane	556-67-2	Experimental BCF - Fish	28 days	Bioaccumulation factor	12400	40CFR 797.1520-Fish Bioaccumm
octamethylcyclotetrasiloxane	556-67-2	Experimental Bioconcentration		Log Kow	6.49	OECD 123 log Kow slow stir
Silsesquioxanes, 3-[(2-aminoethyl)amino]propyl, polymers with di-Me siloxanes, hydroxy-terminated	68554-54-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Triethanolamine	102-71-6	Experimental BCF - Fish	42 days	Bioaccumulation factor	<3.9	similar to OECD 305
Decamethylcyclopentasiloxane	541-02-6	Experimental BCF - Fish	35 days	Bioaccumulation factor	7060	OECD305-Bioconcentration
PALMITYLTRIMETHYL AMMONIUM CHLORIDE	112-02-7	Analogous Compound BCF - Fish	42 days	Bioaccumulation factor	741	OECD305-Bioconcentration
PALMITYLTRIMETHYL AMMONIUM CHLORIDE	112-02-7	Estimated Bioconcentration		Log Kow	3.08	

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
2-Cyano-3,3-diphenyl-2-propenoic acid, 2-ethylhexyl ester	6197-30-4	Experimental Mobility in Soil	Koc	29934-79018 l/kg	
octamethylcyclotetrasiloxane	556-67-2	Experimental Mobility in Soil	Koc	16,600 l/kg	OECD 106 Adsp-Desb Batch Equil

12.5. Results of the PBT and vPvB assessment

Ingredient	CAS Nbr	PBT/vPvB status
Decamethylcyclopentasiloxane	541-02-6	Meets REACH PBT criteria
octamethylcyclotetrasiloxane	556-67-2	Meets REACH PBT criteria
Decamethylcyclopentasiloxane	541-02-6	Meets REACH PBT criteria
octamethylcyclotetrasiloxane	556-67-2	Meets REACH PBT criteria

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.

The surfactant(s) contained in this preparation comply 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. 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)
20 01 29* Detergents containing dangerous substances

SECTION 14: Transportation information

	Ground Transport (ADR)	**Air Transport (IATA)**	**Marine Transport (IMDG)**
14.1 UN number or ID number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(OCTAMETHYLCYCLOTETRASILOXANE; STANNANE, DIMETHYLBIS9((1-OXONEODECYL)OXY))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(OCTAMETHYLCYCLOTETRASILOXANE; STANNANE, DIMETHYLBIS9((1-OXONEODECYL)OXY))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(OCTAMETHYLCYCLOTETRASILOXANE; STANNANE, DIMETHYLBIS9((1-OXONEODECYL)OXY))
14.3 Transport hazard class(es)	9	9	9

14.4 Packing group	III	III	III
14.5 Environmental hazards	Environmentally Hazardous	Not applicable	Marine Pollutant
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	M6	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

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

Restrictions on the manufacture, placing on the market and use:
The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient	CAS Nbr
Decamethylcyclopentasiloxane	541-02-6
octamethylcyclotetrasiloxane	556-67-2

Restriction status: listed in REACH Annex XVII
Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

Authorization status under REACH:
The following substance/s contained in this product might be or is/are subject to authorization in accordance with REACH:

Ingredient	CAS Nbr
Decamethylcyclopentasiloxane	541-02-6
octamethylcyclotetrasiloxane	556-67-2

Authorization status: listed in the Candidate List of Substances of Very High Concern for Authorization

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. 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 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances	Identifier(s)	Qualifying quantity (tonnes) for the application of	
		Lower-tier requirements	Upper-tier requirements
1-methoxy-2-propanol	107-98-2	10	50
octamethylcyclotetrasiloxane	556-67-2	100	200

Regulation (EU) No 649/2012
No chemicals listed

15.2. Chemical Safety Assessment
A chemical safety assessment has not been carried out for this mixture. Chemical safety assessments for the contained substances may have been carried out by the registrants of the substances in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

List of relevant H statements

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

Revision information:
EU Section 09: pH information information was added.
Label: CLP Percent Unknown information was modified.
Label: CLP Precautionary - Prevention information was modified.
Label: CLP Precautionary - Response information was deleted.

Section 03: Composition table % Column heading information was added.
Section 3: Composition/ Information of ingredients table information was modified.
Section 03: SCL table information was added.
Section 03: Substance not applicable information was added.
Section 04: Information on toxicological effects information was modified.
Section 9: Evaporation Rate information information was deleted.
Section 9: Explosive properties information information was deleted.
Section 09: Kinematic Viscosity information information was added.
Section 9: Melting point information information was modified.
Section 9: Oxidising properties information information was deleted.
Section 9: pH information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 9: Vapour density value information was added.
Section 9: Vapour density value information was deleted.
Section 9: Viscosity information information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Classification disclaimer information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: No endocrine disruptor information available warning information was added.
Section 11: Reproductive Hazards information information was deleted.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Reproductive/developmental effects information information was added.
Section 11: Serious Eye Damage/Irritation Table information was modified.
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 added.
Section 11: Target Organs - Repeated Table information was deleted.
Section 12: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: Mobility in soil information information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: PBT/vPvB table row information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Hazardous/Not Hazardous for Transportation information was added.
Section 14 Other Dangerous Goods – Main Heading information was added.
Section 14 Other Dangerous Goods – Regulation Data information was added.
Section 14 Packing Group – Main Heading information was added.
Section 14 Packing Group – Regulation Data information was added.
Section 14 Proper Shipping Name information was added.
Section 14 Regulations – Main Headings information was added.
Section 14 Segregation – Regulation Data information was added.
Section 14 Segregation Code – Main Heading information was added.
Section 14 Special Precautions – Main Heading information was added.
Section 14 Special Precautions – Regulation Data information was added.

Section 14 Transport in bulk – Regulation Data information was added.
Section 14 Marine transport in bulk according to IMO instruments – Main Heading information was added.
Section 14 UN Number Column data information was added.
Section 14 UN Number information was added.
Section 15: Regulations - Inventories information was added.
Section 15: Seveso Substance Text information was added.
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.

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