



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (1907/2006), as amended for GB.

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

1.1. Product identifier

Scotchgard™ Rug & Carpet Cleaner (Cat. No. 4107)

Product Identification Numbers

70-0052-8382-8

7100096524

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

Identified uses

Fabric and carpet cleaner

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: ner-productstewardship@mmtt.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

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

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:

Aerosol, Category 3 - Aerosol 3; H229

For full text of H phrases, see Section 16.

2.2. Label elements

The retained CLP Regulation (EU) No 1272/2008 as amended for Great Britain

SIGNAL WORD

WARNING.

HAZARD STATEMENTS:

H229

Pressurised container: may burst if heated.

PRECAUTIONARY STATEMENTS

General:

P102

Keep out of reach of children.

Prevention:

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251

Do not pierce or burn, even after use.

Storage:

P410 + P412

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208

Contains maleic anhydride. May produce an allergic reaction.

2% of the mixture consists of components of unknown acute oral toxicity.

2% of the mixture consists of components of unknown acute dermal toxicity.

2% of the mixture consists of components of unknown acute inhalation toxicity.

Notes on labelling

Updated per Regulation (EC) No. 648/2004 as amended for Great Britain on detergents. Nota K applied.

Ingredients required per 648/2004: <5%: Anionic surfactant. Contains: Perfume.

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], as amended for GB
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	80 - 95	Substance not classified as hazardous

2,5-Furandione, polymer with ethenylbenzene, ammonium salt	(CAS-No.) 26022-09-3	1 - 5	Substance not classified as hazardous
Petroleum gases, liquefied, sweetened	(CAS-No.) 68476-86-8 (EC-No.) 270-705-8	1 - 5	Flam. Gas 1A, H220 Liquified gas, H280 Nota K,S,U STOT SE 3, H336
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4	1 - 1.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0	< 0.5	Acute Tox. 4, H332 Acute Tox. 4, H302(LD50 = 1200 mg/kg **ATE values per GB MCL**) Skin Irrit. 2, H315 Eye Irrit. 2, H319
ammonia	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6	< 0.4	Skin Corr. 1B, H314 STOT SE 3, H335 Aquatic Acute 1, H400,M=1 Nota B Met. Corr. 1, H290 Aquatic Chronic 2, H411
sodium nitrite	(CAS-No.) 7632-00-0 (EC-No.) 231-555-9	< 0.2	Acute Tox. 3, H301 Aquatic Acute 1, H400,M=1 Ox. Sol. 2, H272 Eye Irrit. 2, H319 STOT SE 1, H370 Aquatic Chronic 3, H412
Dodecyldimethylamine oxide	(CAS-No.) 1643-20-5 (EC-No.) 216-700-6	< 0.2	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400,M=1 Aquatic Chronic 1, H410,M=1
morpholine	(CAS-No.) 110-91-8 (EC-No.) 203-815-1	< 0.2	Flam. Liq. 3, H226 Acute Tox. 3, H311 Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f
maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	< 0.001	EUH071 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372

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
ammonia	(CAS-No.) 1336-21-6 (EC-No.) 215-647-6	(C >= 5%) STOT SE 3, H335

maleic anhydride	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	(C >= 0.001%) Skin Sens. 1A, H317
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	(CAS-No.) 85586-07-8 (EC-No.) 287-809-4	(C >= 20%) Eye Dam. 1, H318 (10% < C < 20%) 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. Get medical attention.

Skin contact

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

Eye contact

Flush eyes with large amounts of water. 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

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide

Carbon dioxide.

Oxides of sulphur.

Condition

During combustion.

During combustion.

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

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. 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.

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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. 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. 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. Do not pierce or burn, even after use. Do not breathe 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. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from heat.

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
maleic anhydride	108-31-6	UK HSE	TWA: 1 mg/m ³ ; STEL: 3 mg/m ³	Respiratory Sensitizer
morpholine	110-91-8	UK HSE	TWA: 36 mg/m ³ (10 ppm); STEL: 72 mg/m ³ (20 ppm)	SKIN
2-butoxyethanol	111-76-2	UK HSE	TWA:123 mg/m ³ (25	SKIN

Ammonia	1336-21-6	UK HSE	ppm); STEL:246 mg/m ³ (50 ppm) TWA:18 mg/m ³ (25 ppm); STEL:25 mg/m ³ (35 ppm) TWA:18 mg/m ³ (25 ppm); STEL:25 mg/m ³ (35 ppm)
Ammonia released from ammonium hydroxide/aqueous ammonia solutions	1336-21-6	UK HSE	UK HSE : UK Health and Safety Commission TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

Biological limit values

Ingredient	CAS Nbr	Agency	Determinant	Biological Specimen	Sampling Time	Value	Additional comments
2-butoxyethanol	111-76-2	UK EH40 BMGVs	Butoxyacetic acid	Creatinine in urine	EOS	240 mmol/mol	

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)

EOS: End of shift.

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:

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	>0.30	=>8 hours
Butyl rubber.	0.5	4-8 hours

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards

Use gloves tested to EN 374

Respiratory protection

During heating: Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate 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 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Aerosol
Colour	Milky White
Odor	Light Floral
Odour threshold	<i>No data available.</i>
Melting point/freezing point	<i>Not applicable.</i>
Boiling point/boiling range	98 °C - 100 °C [Details:(Liquid product)]
Flammability	Non-flammable Aerosol: Category 3.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Flash point	No flash point
Autoignition temperature	<i>Not applicable.</i>
Decomposition temperature	<i>No data available.</i>
pH	9.3
Kinematic Viscosity	<i>No data available.</i>
Water solubility	Complete
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour pressure	1,999.8 Pa - 2,266.5 Pa [@ 20 °C] [Test Method:Tested per ASTM protocol] [Details:(Liquid product)]
Density	1 g/ml [Details:(Liquid product)]
Relative density	1 [Ref Std:WATER=1] [Details:(Liquid product)]
Relative Vapour Density	<i>Not applicable.</i>
Particle Characteristics	<i>Not applicable.</i>

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

No data available.

Evaporation rate

Not applicable.

Percent volatile

approximately 95 %

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>
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 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 3M assessments.

11.1. Information on hazard classes as defined in the retained CLP Regulation (EU) No 1272/2008, as amended for Great Britain.

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

Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

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:

Single exposure may cause target organ effects:

Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

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	Inhalation-Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Petroleum gases, liquefied, sweetened	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Dermal	Rat	LD50 > 2,000 mg/kg
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Ingestion	Rat	LD50 1,800 mg/kg
2-butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
2-butoxyethanol	Inhalation-Vapour (4 hours)	Guinea pig	LC50 > 2.6 mg/l
2-butoxyethanol	Ingestion	Guinea pig	LD50 1,200 mg/kg
ammonia	Ingestion	Rat	LD50 350 mg/kg
sodium nitrite	Ingestion	Rat	LD50 180 mg/kg
morpholine	Dermal	Rabbit	LD50 500 mg/kg
morpholine	Inhalation-Vapour	Rat	LC50 estimated to be 10 - 20 mg/l
morpholine	Ingestion	Rat	LD50 1,680 mg/kg
Dodecyldimethylamine oxide	Dermal	similar compounds	LD50 > 2,000 mg/kg
Dodecyldimethylamine oxide	Ingestion	similar compounds	LD50 1,064 mg/kg
maleic anhydride	Dermal	Rabbit	LD50 2,620 mg/kg
maleic anhydride	Ingestion	Rat	LD50 1,030 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Petroleum gases, liquefied, sweetened	Professional judgement	No significant irritation
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Rabbit	Irritant
2-butoxyethanol	Rabbit	Irritant
ammonia	Rabbit	Corrosive
sodium nitrite	Rabbit	No significant irritation
morpholine	Rabbit	Corrosive
Dodecyldimethylamine oxide	similar compounds	Irritant
maleic anhydride	Human and animal	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Petroleum gases, liquefied, sweetened	Professional judgement	No significant irritation
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Rabbit	Corrosive
2-butoxyethanol	Rabbit	Severe irritant
ammonia	Rabbit	Corrosive
sodium nitrite	Rabbit	Severe irritant
morpholine	Rabbit	Corrosive
Dodecyldimethylamine oxide	similar compounds	Corrosive
maleic anhydride	Rabbit	Corrosive

Skin Sensitisation

Name	Species	Value
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Guinea pig	Not classified
2-butoxyethanol	Guinea pig	Not classified
morpholine	Guinea pig	Not classified
Dodecyldimethylamine oxide	Guinea pig	Not classified
maleic anhydride	Multiple animal species	Sensitising

Respiratory Sensitisation

Name	Species	Value
maleic anhydride	Human	Sensitising

Germ Cell Mutagenicity

Name	Route	Value
Petroleum gases, liquefied, sweetened	In Vitro	Not mutagenic
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	In Vitro	Not mutagenic
2-butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification
sodium nitrite	In Vitro	Some positive data exist, but the data are not sufficient for classification
sodium nitrite	In vivo	Some positive data exist, but the data are not sufficient for classification
morpholine	In Vitro	Some positive data exist, but the data are not sufficient for classification
morpholine	In vivo	Some positive data exist, but the data are not sufficient for classification
Dodecyldimethylamine oxide	In Vitro	Not mutagenic
maleic anhydride	In vivo	Not mutagenic
maleic anhydride	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
2-butoxyethanol	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

sodium nitrite	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
morpholine	Ingestion	Multiple animal species	Not carcinogenic
morpholine	Inhalation	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during organogenesis
2-butoxyethanol	Dermal	Not classified for development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-butoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-butoxyethanol	Inhalation	Not classified for development	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis
sodium nitrite	Ingestion	Not classified for female reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
sodium nitrite	Ingestion	Not classified for male reproduction	Mouse	NOAEL 425 mg/kg/day	2 generation
sodium nitrite	Ingestion	Not classified for development	Rat	NOAEL 50 mg/kg/day	gestation into lactation
morpholine	Ingestion	Not classified for development		NA	
morpholine	Ingestion	Toxic to male reproduction	similar compounds	NOAEL 60 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for female reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for male reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
maleic anhydride	Ingestion	Not classified for development	Rat	NOAEL 140 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
Petroleum gases, liquefied, sweetened	Inhalation	cardiac sensitisation	Causes damage to organs	similar compounds	NOAEL Not available	
Petroleum gases, liquefied, sweetened	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Petroleum gases, liquefied, sweetened	Inhalation	respiratory irritation	Not classified		NOAEL Not available	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
2-butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 902 mg/kg	6 hours
2-butoxyethanol	Dermal	liver	Not classified	Rabbit	LOAEL 72 mg/kg	not available
2-butoxyethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	LOAEL 451 mg/kg	6 hours
2-butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	

2-butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-butoxyethanol	Inhalation	central nervous system depression	Not classified	Professional judgement	NOAEL Not available	
2-butoxyethanol	Inhalation	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Ingestion	central nervous system depression	Not classified	Professional judgement	NOAEL Not available	
2-butoxyethanol	Ingestion	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse
ammonia	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL not available	
sodium nitrite	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
sodium nitrite	Ingestion	methemoglobinemia	Causes damage to organs	Human	NOAEL Not available	
morpholine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Dodecyldimethylamine oxide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available.	
maleic anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Petroleum gases, liquefied, sweetened	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL Not available	
2-butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	not available
2-butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 150 mg/kg/day	90 days
2-butoxyethanol	Inhalation	liver	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
2-butoxyethanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	14 weeks
2-butoxyethanol	Inhalation	blood	Not classified	Rat	LOAEL 0.15 mg/l	6 months
2-butoxyethanol	Inhalation	endocrine system	Not classified	Dog	LOAEL 1.9 mg/l	8 days
2-butoxyethanol	Ingestion	blood	Not classified	Rat	LOAEL 69 mg/kg/day	13 weeks
2-butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available
sodium nitrite	Ingestion	skin gastrointestinal tract hematopoietic system eyes kidney and/or bladder heart endocrine system bone, teeth, nails, and/or hair liver	Not classified	Rat	NOAEL 310 mg/kg/day	14 weeks

		immune system muscles nervous system respiratory system				
morpholine	Dermal	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Guinea pig	LOAEL 900 mg/kg/day	13 days
morpholine	Dermal	hematopoietic system	Not classified	Guinea pig	NOAEL 900 mg/kg/day	13 days
morpholine	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
morpholine	Inhalation	pulmonary fibrosis	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.09 mg/l	13 weeks
morpholine	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 64 mg/l	5 days
morpholine	Inhalation	liver	Not classified	Rat	LOAEL 64 mg/l	5 days
morpholine	Inhalation	heart endocrine system	Not classified	Rat	NOAEL 0.9 mg/l	13 weeks
morpholine	Inhalation	gastrointestinal tract nervous system	Not classified	Rat	NOAEL 0.53 mg/l	104 weeks
morpholine	Ingestion	kidney and/or bladder	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 160 mg/kg/day	30 days
morpholine	Ingestion	liver respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 160 mg/kg/day	30 days
morpholine	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 800 mg/kg/day	30 days
morpholine	Ingestion	endocrine system	Not classified	Rat	NOAEL 323 mg/kg/day	4 weeks
Dodecyldimethylamine oxide	Ingestion	eyes	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL 88 mg/kg/day	90 days
maleic anhydride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.0011 mg/l	6 months
maleic anhydride	Inhalation	endocrine system hematopoietic system nervous system kidney and/or bladder heart liver eyes	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
maleic anhydride	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 55 mg/kg/day	80 days
maleic anhydride	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 250 mg/kg/day	183 days
maleic anhydride	Ingestion	heart nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
maleic anhydride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
maleic anhydride	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 60 mg/kg/day	90 days
maleic anhydride	Ingestion	skin endocrine system immune system eyes respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

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 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
2,5-Furandione, polymer with ethenylbenzene, ammonium salt	26022-09-3	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Petroleum gases, liquefied, sweetened	68476-86-8	N/A	Data not available or insufficient for classification	N/A	N/A	n/a
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Activated sludge	Analogous Compound	3 hours	EC50	135 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Green algae	Experimental	72 hours	ErC10	5.4 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Green algae	Experimental	72 hours	ErC50	>20 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Rainbow trout	Experimental	96 hours	LC50	3.6 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Water flea	Experimental	48 hours	EC50	4.7 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Fathead minnow	Analogous Compound	42 days	NOEC	1.4 mg/l
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Water flea	Analogous Compound	7 days	NOEC	0.88 mg/l
2-butoxyethanol	111-76-2	Activated sludge	Experimental	16 hours	IC50	>1,000 mg/l
2-butoxyethanol	111-76-2	Eastern oyster	Experimental	96 hours	LC50	89.4 mg/l
2-butoxyethanol	111-76-2	Green algae	Experimental	72 hours	ErC50	1,840 mg/l
2-butoxyethanol	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
2-butoxyethanol	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
2-butoxyethanol	111-76-2	Green algae	Experimental	72 hours	ErC10	679 mg/l
2-butoxyethanol	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l
ammonia	1336-21-6	Invertebrate	Estimated	48 hours	EC50	21 mg/l
ammonia	1336-21-6	Rainbow trout	Estimated	96 hours	LC50	1.8 mg/l
ammonia	1336-21-6	Water flea	Estimated	48 hours	LC50	7.36 mg/l

ammonia	1336-21-6	Rainbow trout	Estimated	73 days	NOEC	0.0278 mg/l
ammonia	1336-21-6	Water flea	Estimated	21 days	NOEC	1.1 mg/l
Dodecyldimethylamine oxide	1643-20-5	Green algae	Experimental	72 hours	ErC50	0.11 mg/l
Dodecyldimethylamine oxide	1643-20-5	Medaka	Experimental	96 hours	LC50	30 mg/l
Dodecyldimethylamine oxide	1643-20-5	Water flea	Experimental	48 hours	EC50	2.2 mg/l
Dodecyldimethylamine oxide	1643-20-5	Fathead minnow	Experimental	302 days	NOEC	0.42 mg/l
Dodecyldimethylamine oxide	1643-20-5	Green algae	Experimental	72 hours	NOEC	0.0049 mg/l
Dodecyldimethylamine oxide	1643-20-5	Water flea	Experimental	21 days	NOEC	0.36 mg/l
morpholine	110-91-8	Activated sludge	Experimental	30 minutes	EC20	>1,000 mg/l
morpholine	110-91-8	Fish	Experimental	96 hours	LC50	100 mg/l
morpholine	110-91-8	Green algae	Experimental	96 hours	ErC50	28 mg/l
morpholine	110-91-8	Rainbow trout	Experimental	96 hours	LC50	180 mg/l
morpholine	110-91-8	Water flea	Experimental	48 hours	EC50	45 mg/l
morpholine	110-91-8	Green algae	Experimental	96 hours	NOEC	10 mg/l
morpholine	110-91-8	Water flea	Experimental	21 days	NOEC	5 mg/l
sodium nitrite	7632-00-0	Green algae	Experimental	72 hours	EC50	>100 mg/l
sodium nitrite	7632-00-0	Invertebrate	Experimental	48 hours	LC50	37 mg/l
sodium nitrite	7632-00-0	Rainbow trout	Experimental	96 hours	LC50	0.9 mg/l
sodium nitrite	7632-00-0	Fathead minnow	Estimated	32 days	NOEC	3.1 mg/l
maleic anhydride	108-31-6	Bacteria	Experimental	18 hours	EC10	44.6 mg/l
maleic anhydride	108-31-6	Rainbow trout	Experimental	96 hours	LC50	75 mg/l
maleic anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC50	74.4 mg/l
maleic anhydride	108-31-6	Water flea	Hydrolysis Product	48 hours	EC50	93.8 mg/l
maleic anhydride	108-31-6	Water flea	Experimental	21 days	NOEC	10 mg/l
maleic anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC10	11.8 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
2,5-Furandione, polymer with ethenylbenzene, ammonium salt	26022-09-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Petroleum gases, liquefied, sweetened	68476-86-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Experimental Biodegradation	28 days	BOD	96 %BOD/ThOD	OECD 301D - Closed bottle test
2-butoxyethanol	111-76-2	Experimental Biodegradation	28 days	CO2 evolution	90.4 %CO2 evolution/THCO2	OECD 301B - Modified sturm or CO2

					evolution	
2-butoxyethanol	111-76-2	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	100 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
ammonia	1336-21-6	Analogous Compound Soil Metabolism Aerobic		Half-life (t 1/2)	6 hours (t 1/2)	
Dodecyldimethylamine oxide	1643-20-5	Experimental Biodegradation	28 days	CO2 evolution	95.27 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
morpholine	110-91-8	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	93 %removal of DOC	OECD 301E - Modif. OECD Screen
morpholine	110-91-8	Experimental Biodegradation	31 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
sodium nitrite	7632-00-0	Data not availbl- insufficient	N/A	N/A	N/A	N/A
maleic anhydride	108-31-6	Hydrolysis product Biodegradation	25 days	CO2 evolution	>90 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
maleic anhydride	108-31-6	Experimental Hydrolysis		Hydrolytic half-life	0.37 minutes (t 1/2)	

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
2,5-Furandione, polymer with ethenylbenzene, ammonium salt	26022-09-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Petroleum gases, liquefied, sweetened	68476-86-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Petroleum gases, liquefied, sweetened	68476-86-8	Estimated Bioconcentration		Log Kow	2.8	
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Experimental Bioconcentration		Log Kow	0.78	OECD 123 log Kow slow stir
2-butoxyethanol	111-76-2	Experimental Bioconcentration		Log Kow	0.81	
ammonia	1336-21-6	Analogous Compound Bioconcentration		Log Kow	-1.14	OECD 107 log Kow shke flsk mtd
Dodecyldimethylamine oxide	1643-20-5	Estimated Bioconcentration		Log Kow	1.85	
morpholine	110-91-8	Experimental BCF - Fish	42 days	Bioaccumulation factor	<2.8	OECD305-Bioconcentration
morpholine	110-91-8	Experimental Bioconcentration		Log Kow	-2.55	OECD 107 log Kow shke flsk mtd
sodium nitrite	7632-00-0	Experimental Bioconcentration		Log Kow	-3.7	OECD 107 log Kow shke flsk mtd
maleic anhydride	108-31-6	Experimental Bioconcentration		Log Kow	-2.61	OECD 107 log Kow shke flsk mtd

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Sulfuric acid, mono-C12-14-alkyl esters, sodium salts	85586-07-8	Experimental Mobility in Soil	Koc	316-1567 l/kg	
2-butoxyethanol	111-76-2	Estimated Mobility in Soil	Koc	67 l/kg	
Dodecyldimethylamine oxide	1643-20-5	Modeled Mobility in Soil	Koc	1,100 l/kg	ACD/Labs ChemSketch™

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. Other adverse effects

The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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

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. Facility must be capable of handling aerosol cans. 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)

070704*	Other organic solvents, washing liquids and mother liquors
16 05 04*	Gases in pressure containers (including halons) containing dangerous substances

EU waste code (product container after use)

15 01 04	Metallic packaging
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SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS, NON-FLAMMABLE	AEROSOLS
14.3 Transport hazard class(es)	2.2	2.2	2.2
14.4 Packing group	Not applicable.	Not applicable.	Not applicable.
14.5 Environmental hazards	Not Environmentally Hazardous	Not applicable	Not a 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 Transport in bulk	No data available.	No data available.	No data available.

according to Annex II of Marpol 73/78 and IBC Code			
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	5A	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 <u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
2-butoxyethanol	111-76-2	Gr. 3: Not classifiable	International Agency for Research on Cancer
morpholine	110-91-8	Gr. 3: Not classifiable	International Agency for Research on Cancer

Regulation UK regulation 2023/63 (marketing and use of explosive precursors and poisons)

This product contains a reportable substance according to UK legislation 1972/66: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see UK Regulation 2023/63 for further details.

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

COMAH Regulation, SI 2015/483

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
2-butoxyethanol	111-76-2	50	200

ammonia	1336-21-6	50	200
ammonia	1336-21-6	100	200
morpholine	110-91-8	10	50
Petroleum gases, liquefied, sweetened	68476-86-8	10	50
sodium nitrite	7632-00-0	50	200

Regulation (EU) No 649/2012, as amended for GB

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 for GB.

SECTION 16: Other information**List of relevant H statements**

EUH071	Corrosive to the respiratory tract.
H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H229	Pressurised container: may burst if heated.
H272	May intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
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.
H412	Harmful to aquatic life with long lasting effects.

Revision information:

GB Section 02: CLP Ingredient table information was deleted.

Section 1: E-mail address information was modified.

Section 1: Product name information was modified.

Contains statement for sensitizers information was added.

Section 02: Label Elements: GB Percent Unknown information was added.

Section 02: Label Elements: GB Percent Unknown information was deleted.

List of sensitizers information was added.

Section 3: Composition/ Information of ingredients table 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: glove data value information was added.
Section 8: glove data value information was modified.
Section 8: Occupational exposure limit table information was modified.
OEL Reg Agency Desc information was modified.
Section 9: Flammability (solid, gas) information information was deleted.
Section 9: Flammability information information was added.
Section 9: Odor information was modified.
Section 9: Particle Characteristics N/A information was added.
Section 11: Acute Toxicity table information was modified.
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: 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: 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: Persistence and Degradability information information was modified.
Section 12: Biocaccumulative potential information information was modified.
Section 15: Seveso Substance Text 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.

3M SDSs for Great Britain are available at www.3M.com/uk

For Northern Ireland documents, please contact your 3M representative to obtain a copy.