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

3M™ Perfect-It™ Gelcoat Compound + Polish, 30343, 30344, 30345, 30346, 30347

Product Identification Numbers

60-4551-1012-6 60-4551-1142-1

7100223149 7100237607

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: ner-productstewardship@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

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.
Aspiration hazard classification does not apply due to the kinematic viscosity of the product.

CLASSIFICATION:
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

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

SIGNAL WORD
WARNING.

Symbols
GHS07 (Exclamation mark) |

Pictograms



Ingredient	CAS Nbr	EC No.	% by Wt
2-methylisothiazol-3(2H)-one	2682-20-4	220-239-6	< 0.009
octhilinone (ISO)	26530-20-1	247-761-7	< 0.007

HAZARD STATEMENTS:

H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P280E	Wear protective gloves.

Response:

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Contains 5% of components with unknown hazards to the aquatic environment.

Information required per Regulation (EU) No 528/2012, as amended for Great Britain on Biocidal Products:
Contains a biocidal product (Film preservative): 2-octyl-isothiazol-3(2H)-one

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	30 - 60	Substance not classified as hazardous
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	(EC-No.) 926-141-6	10 - 30	Asp. Tox. 1, H304 EUH066
Aluminium oxide	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	10 - 30	Substance with a national occupational exposure limit
Polyethylene-polypropylene glycol	(CAS-No.) 9003-11-6	3 - 7	Substance not classified as hazardous
Polyethylene Glycol Sorbitan Monooleate	(CAS-No.) 9005-65-6	3 - 7	Substance not classified as hazardous
White mineral oil (petroleum)	(CAS-No.) 8042-47-5 (EC-No.) 232-455-8	1 - 5	Asp. Tox. 1, H304
Glycerin	(CAS-No.) 56-81-5 (EC-No.) 200-289-5	0.5 - 1.5	Substance with a national occupational exposure limit
2,2'-iminodiethanol	(CAS-No.) 111-42-2 (EC-No.) 203-868-0	<= 0.25	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Repr. 2, H361df Aquatic Chronic 3, H412
2-methylisothiazol-3(2H)-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6	< 0.009	Acute Tox. 2, H330 EUH071 Acute Tox. 3, H311 Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=1
octhilinone (ISO)	(CAS-No.) 26530-20-1 (EC-No.) 247-761-7	< 0.007	Acute Tox. 2, H330(LC50 = 0.27 mg/l **ATE values per GB MCL**) EUH071 Acute Tox. 3, H311(LD50 = 311 mg/kg **ATE values per GB MCL**) Acute Tox. 3, H301(LD50 = 125 mg/kg **ATE values per GB MCL**) Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400,M=100 Aquatic Chronic 1, H410,M=100

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
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-methylisothiazol-3(2H)-one	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6	(C >= 0.0015%) Skin Sens. 1A, H317
octhilinone (ISO)	(CAS-No.) 26530-20-1 (EC-No.) 247-761-7	(C >= 0.0015%) Skin Sens. 1A, H317

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
The most important symptoms and effects based on the GB CLP classification include:
Allergic skin reaction (redness, swelling, blistering, and itching).

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

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
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During combustion.
Carbon dioxide.	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. 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
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 an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections
Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling
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
No special storage requirements.

7.3. Specific end use(s)
See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits
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
Aluminium oxide	1344-28-1	UK HSE	TWA(as respirable dust):4 mg/m3;TWA(as inhalable dust):10 mg/m3	

Glycerin	56-81-5	UK HSE	TWA(as mist):10 mg/m3

UK HSE : 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.

8.2. Exposure controls

8.2.1. Engineering controls
No engineering controls required.

8.2.2. Personal protective equipment (PPE)

Eye/face protection
None required.

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.
Gloves made from the following material(s) are recommended:

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

Applicable Norms/Standards
Use gloves tested to EN 374

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

Respiratory protection
None required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	White
Odor	Slight Solvent
Odour threshold	*No data available.*
Melting point/freezing point	*No data available.*
Boiling point/boiling range	*No data available.*
Flammability	Not applicable.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Flash point	No flash point
Autoignition temperature	*No data available.*

Decomposition temperature	*No data available.*
pH	7.5 - 9
Kinematic Viscosity	32,407 mm²/sec
Water solubility	*No data available.*
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Vapour pressure	*No data available.*
Density	1.1 - 1.1 kg/l
Relative density	1.05 - 1.1 [*Ref Std:*WATER=1]
Relative Vapour Density	*No data available.*
Particle Characteristics	*Not applicable.*

9.2. Other information

9.2.2 Other safety characteristics

Average particle size	*No data available.*
Bulk density	*No data available.*
EU Volatile Organic Compounds	157 g/l
Evaporation rate	*No data available.*
Molecular weight	*No data available.*
Percent volatile	*No data available.*
Softening point	*No data available.*

* The values noted with an asterisk (*) in the above table are representative values based on testing of raw materials and selected products. Additionally, a material's characteristics may change depending upon the process and conditions of use at a facility, including further changes in particle size, or mixture with other materials. In order to obtain specific data for the material, we recommend the user conduct characterisation testing based on the use factors at the specific facility.

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.

No data available.

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 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
No known health effects.

Skin contact
Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

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.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

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	Inhalation-Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Aluminium oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminium oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminium oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Ingestion	Rat	LD50 > 15,000 mg/kg
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Dermal	similar compounds	LD50 > 5,000 mg/kg

Polyethylene Glycol Sorbitan Monooleate	Dermal	Not available	LD50 > 5,000 mg/kg
Polyethylene Glycol Sorbitan Monooleate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.1 mg/l
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Rat	LD50 20,000 mg/kg
Polyethylene-polypropylene glycol	Dermal	similar compounds	LD50 > 2,000 mg/kg
Polyethylene-polypropylene glycol	Ingestion	similar compounds	LD50 > 5,000 mg/kg
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Glycerin	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerin	Ingestion	Rat	LD50 > 5,000 mg/kg
2,2'-iminodiethanol	Dermal	Rabbit	LD50 8,180 mg/kg
2,2'-iminodiethanol	Ingestion	Rat	LD50 1,410 mg/kg
2-methylisothiazol-3(2H)-one	Dermal	Rat	LD50 242 mg/kg
2-methylisothiazol-3(2H)-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
2-methylisothiazol-3(2H)-one	Ingestion	Rat	LD50 120 mg/kg
octhilinone (ISO)	Dermal	Rabbit	LD50 311 mg/kg
octhilinone (ISO)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.27 mg/l
octhilinone (ISO)	Ingestion	Rat	LD50 125 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Aluminium oxide	Rabbit	No significant irritation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	similar compounds	Mild irritant
Polyethylene Glycol Sorbitan Monooleate	Rabbit	No significant irritation
Polyethylene-polypropylene glycol	similar compounds	No significant irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
2,2'-iminodiethanol	Rabbit	Irritant
2-methylisothiazol-3(2H)-one	Rabbit	Corrosive
octhilinone (ISO)	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Aluminium oxide	Rabbit	No significant irritation
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	similar compounds	No significant irritation
Polyethylene Glycol Sorbitan Monooleate	Rabbit	No significant irritation
Polyethylene-polypropylene glycol	similar compounds	No significant irritation
White mineral oil (petroleum)	Rabbit	Mild irritant
Glycerin	Rabbit	No significant irritation
2,2'-iminodiethanol	Rabbit	Corrosive
2-methylisothiazol-3(2H)-one	Rabbit	Corrosive
octhilinone (ISO)	similar health	Corrosive

	hazards	

Skin Sensitisation

Name	Species	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	similar compounds	Not classified
Polyethylene Glycol Sorbitan Monooleate	Guinea pig	Not classified
Polyethylene-polypropylene glycol	Guinea pig	Not classified
White mineral oil (petroleum)	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified
2,2'-iminodiethanol	Human and animal	Not classified
2-methylisothiazol-3(2H)-one	Human and animal	Sensitising
octhilinone (ISO)	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
2-methylisothiazol-3(2H)-one	Human and animal	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
Aluminium oxide	In Vitro	Not mutagenic
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	In Vitro	Not mutagenic
Polyethylene Glycol Sorbitan Monooleate	In Vitro	Not mutagenic
Polyethylene-polypropylene glycol	In Vitro	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
2,2'-iminodiethanol	In Vitro	Not mutagenic
2-methylisothiazol-3(2H)-one	In vivo	Not mutagenic
2-methylisothiazol-3(2H)-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
octhilinone (ISO)	In Vitro	Not mutagenic
octhilinone (ISO)	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Aluminium oxide	Inhalation	Rat	Not carcinogenic
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
2,2'-iminodiethanol	Dermal	Mouse	Carcinogenic.

2-methylisothiazol-3(2H)-one	Dermal	Mouse	Not carcinogenic
2-methylisothiazol-3(2H)-one	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Not classified for female reproduction	Rat	NOAEL 6,666 mg/kg/day	3 generation
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Not classified for male reproduction	Rat	NOAEL 6,666 mg/kg/day	3 generation
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Not classified for development	Rat	NOAEL 5,000 mg/kg/day	during organogenesis
White mineral oil (petroleum)	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not classified for male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not classified for development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Glycerin	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerin	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	2 generation
2,2'-iminodiethanol	Ingestion	Not classified for male reproduction	Rat	NOAEL 128 mg/kg/day	1 generation
2,2'-iminodiethanol	Dermal	Not classified for development	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
2,2'-iminodiethanol	Inhalation	Not classified for development	Rat	NOAEL 0.05 mg/l	during organogenesis
2,2'-iminodiethanol	Ingestion	Toxic to female reproduction	Rat	NOAEL 38 mg/kg/day	1 generation
2,2'-iminodiethanol	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	1 generation
2-methylisothiazol-3(2H)-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methylisothiazol-3(2H)-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-methylisothiazol-3(2H)-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
octhilinone (ISO)	Ingestion	Not classified for development	Rabbit	NOEL 20 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
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2,2'-iminodiethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL not available	

2,2'-iminodiethanol	Ingestion	kidney and/or bladder	May cause damage to organs	Rat	NOAEL 200 mg/kg	
2,2'-iminodiethanol	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 200 mg/kg	not applicable
2,2'-iminodiethanol	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg	not applicable
2-methylisothiazol-3(2H)-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
octhilinone (ISO)	Inhalation	respiratory irritation	May cause respiratory irritation	Rat	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Aluminium oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminium oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Inhalation	liver	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.5 mg/l	13 weeks
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 100 mg/kg/day	13 weeks
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Ingestion	hematopoietic system | eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Polyethylene Glycol Sorbitan Monooleate	Ingestion	heart | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	liver | immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Glycerin	Inhalation	respiratory system | heart | liver | kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
2,2'-iminodiethanol	Dermal	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 63 mg/kg/day	13 weeks

2,2'-iminodiethanol	Dermal	liver | nervous system | kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
2,2'-iminodiethanol	Dermal	skin	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
2,2'-iminodiethanol	Dermal	heart | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | immune system | muscles | eyes | respiratory system | vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
2,2'-iminodiethanol	Inhalation	hematopoietic system | liver | kidney and/or bladder	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
2,2'-iminodiethanol	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.015 mg/l	13 weeks
2,2'-iminodiethanol	Inhalation	heart | skin | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | immune system | muscles | nervous system | eyes | vascular system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
2,2'-iminodiethanol	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	13 weeks
2,2'-iminodiethanol	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 57 mg/kg/day	13 weeks
2,2'-iminodiethanol	Ingestion	endocrine system | liver | kidney and/or bladder | heart | skin | gastrointestinal tract | bone, teeth, nails, and/or hair | immune system | muscles | eyes | respiratory system | vascular system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks

Aspiration Hazard

Name	Value
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Aspiration hazard
White mineral oil (petroleum)	Aspiration hazard

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
Aluminium oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminium oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Green algae	Analogous Compound	72 hours	EL50	58.84 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Zebra Fish	Analogous Compound	96 hours	LL50	>100 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Green algae	Analogous Compound	72 hours	EL10	19.05 mg/l
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Water flea	Analogous Compound	21 days	NOEL	10 mg/l
Polyethylene-polypropylene glycol	9003-11-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
White mineral oil (petroleum)	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
White mineral oil (petroleum)	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
White mineral oil (petroleum)	8042-47-5	Water flea	Analogous Compound	21 days	NOEL	>100 mg/l
Glycerin	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerin	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
2,2'-iminodiethanol	111-42-2	Brine shrimp	Experimental	24 hours	EC50	2,800 mg/l
2,2'-iminodiethanol	111-42-2	Diatom	Experimental	72 hours	EC50	86.96 mg/l

2,2'-iminodiethanol	111-42-2	Green algae	Experimental	72 hours	ErC50	9.5 mg/l
2,2'-iminodiethanol	111-42-2	Rainbow trout	Experimental	96 hours	LC50	460 mg/l
2,2'-iminodiethanol	111-42-2	Sheepshead Minnow	Experimental	96 hours	LC50	>589 mg/l
2,2'-iminodiethanol	111-42-2	Water flea	Experimental	48 hours	EC50	30.1 mg/l
2,2'-iminodiethanol	111-42-2	Diatom	Experimental	72 hours	NOEC	<16 mg/l
2,2'-iminodiethanol	111-42-2	Green algae	Experimental	72 hours	ErC10	1.4 mg/l
2,2'-iminodiethanol	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l
2,2'-iminodiethanol	111-42-2	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l
2,2'-iminodiethanol	111-42-2	Plant	Experimental	21 days	EC50	1,632 mg/kg (Dry Weight)
2,2'-iminodiethanol	111-42-2	Redworm	Experimental	63 days	EC50	776 mg/kg (Dry Weight)
2,2'-iminodiethanol	111-42-2	Springtail	Experimental	28 days	EC50	4,205 mg/kg (Dry Weight)
2-methylisothiazol-3(2H)-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.099 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	25.1 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Water flea	Experimental	48 hours	LC50	0.934 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Blackworm	Experimental	28 days	NOEC	25 mg/kg (Dry Weight)
2-methylisothiazol-3(2H)-one	2682-20-4	Diatom	Experimental	72 hours	ErC10	0.04 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Fathead minnow	Experimental	33 days	NOEC	2.1 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
2-methylisothiazol-3(2H)-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
octhilinone (ISO)	26530-20-1	Diatom	Experimental	72 hours	EC50	0.0015 mg/l
octhilinone (ISO)	26530-20-1	Green algae	Experimental	72 hours	EC50	0.084 mg/l
octhilinone (ISO)	26530-20-1	Mysid Shrimp	Experimental	96 hours	LC50	0.071 mg/l
octhilinone (ISO)	26530-20-1	Rainbow trout	Experimental	96 hours	LC50	0.036 mg/l
octhilinone (ISO)	26530-20-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.18 mg/l
octhilinone (ISO)	26530-20-1	Water flea	Experimental	48 hours	EC50	0.42 mg/l
octhilinone (ISO)	26530-20-1	Diatom	Experimental	72 hours	NOEC	0.00068 mg/l
octhilinone (ISO)	26530-20-1	Green algae	Experimental	72 hours	NOEC	0.0156 mg/l
octhilinone (ISO)	26530-20-1	Water flea	Experimental	21 days	NOEC	0.0016 mg/l
octhilinone (ISO)	26530-20-1	Activated sludge	Experimental	3 hours	EC50	30.4 mg/l
octhilinone (ISO)	26530-20-1	Bobwhite quail	Experimental	14 days	LD50	384 ppm diet

octhilinone (ISO)	26530-20-1	Lettuce	Experimental	17 days	EC50	45 mg/kg (Dry Weight)
octhilinone (ISO)	26530-20-1	Redworm	Experimental	14 days	LC50	866 mg/kg (Dry Weight)
octhilinone (ISO)	26530-20-1	Soil microbes	Experimental	28 days	EC50	84.1 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Aluminium oxide	1344-28-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Experimental Biodegradation	28 days	BOD	69 %BOD/ThOD	OECD 301F - Manometric respirometry
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Experimental Biodegradation	28 days	CO2 evolution	61 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Polyethylene-polypropylene glycol	9003-11-6	Data not availbl-insufficient	N/A	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Glycerin	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
2,2'-iminodiethanol	111-42-2	Experimental Biodegradation	28 days	BOD	93 %BOD/ThOD	OECD 301F - Manometric respirometry
2,2'-iminodiethanol	111-42-2	Experimental Biodegradation	9 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
2-methylisothiazol-3(2H)-one	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
2-methylisothiazol-3(2H)-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
octhilinone (ISO)	26530-20-1	Experimental Biodegradation	28 days	BOD	< 10 %BOD/ThOD	OECD 301D - Closed bottle test
octhilinone (ISO)	26530-20-1	Experimental Aquatic Inherent Biodegrad.	59 days	Dissolv. Organic Carbon Deplet	88 %removal of DOC	OECD 303A - Simulated Aerobic

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Aluminium oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	926-141-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Modeled Bioconcentration		Bioaccumulation factor	5	Catalogic™
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Modeled Bioconcentration		Log Kow	5.61	Episuite™
Polyethylene-polypropylene glycol	9003-11-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
White mineral oil (petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

Glycerin	56-81-5	Experimental Bioconcentration		Log Kow	-1.75	similar to OECD 107
2,2'-iminodiethanol	111-42-2	Experimental Bioconcentration		Log Kow	-2.18	OECD 107 log Kow shke flsk mtd
2-methylisothiazol-3(2H)-one	2682-20-4	Analogous Compound BCF - Fish	56 days	Bioaccumulation factor	5.75	
2-methylisothiazol-3(2H)-one	2682-20-4	Experimental Bioconcentration		Log Kow	-0.486	OECD 107 log Kow shke flsk mtd
octhilinone (ISO)	26530-20-1	Experimental Bioconcentration		Log Kow	2.92	OECD 117 log Kow HPLC method

12.4. Mobility in soil

Material	Cas No.	Test type	Study Type	Test result	Protocol
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Modeled Mobility in Soil	Koc	810 l/kg	Episuite™
Glycerin	56-81-5	Modeled Mobility in Soil	Koc	<1 l/kg	Episuite™
2,2'-iminodiethanol	111-42-2	Modeled Mobility in Soil	Koc	<1 l/kg	Episuite™
2-methylisothiazol-3(2H)-one	2682-20-4	Experimental Mobility in Soil	Koc	6.4-10 l/kg	OECD 106 Adsp-Desb Batch Equil
octhilinone (ISO)	26530-20-1	Experimental Mobility in Soil	Koc	604-1297 l/kg	835.1110 Sludge Sorp Isotherm

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

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

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

EU waste code (product as sold)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

Not hazardous for transportation.

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

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

SECTION 15: Regulatory information

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

Carcinogenicity

Ingredient	CAS Nbr	Classification	Regulation
2,2'-iminodiethanol	111-42-2	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

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 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.

COMAH Regulation, SI 2015/483
Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

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

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H330	Fatal if inhaled.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:
EU Section 14 - Table Data information was added.
EU Section 14 - Table Headers information was added.
GBSDS Section 14 Transport in bulk - Main Heading information was deleted.
GBSDS Section 14 UN Number information was deleted.
Section 1: E-mail address information was modified.

Label: Graphic information was modified.
Section 6: Accidental release personal information information was modified.
Section 8: Occupational exposure limit table information was modified.
OEL Reg Agency Desc information was modified.
Section 08: Personal Protection - Apron Statement information was added.
Section 8: Personal Protection - Skin/body information information was deleted.
Section 8: Skin protection - protective clothing information information was deleted.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was deleted.
Section 14 Classification Code – Regulation Data information was deleted.
Section 14 Control Temperature – Main Heading information was deleted.
Section 14 Control Temperature – Regulation Data information was deleted.
Section 14 Emergency Temperature – Main Heading information was deleted.
Section 14 Emergency Temperature – Regulation Data information was deleted.
Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.
Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.
Section 14 Other Dangerous Goods – Main Heading information was deleted.
Section 14 Other Dangerous Goods – Regulation Data information was deleted.
Section 14 Packing Group – Main Heading information was deleted.
Section 14 Packing Group – Regulation Data information was deleted.
Section 14 Proper Shipping Name information was deleted.
Section 14 Regulations – Main Headings information was deleted.
Section 14 Segregation – Regulation Data information was deleted.
Section 14 Segregation Code – Main Heading information was deleted.
Section 14 Special Precautions – Main Heading information was deleted.
Section 14 Special Precautions – Regulation Data information was deleted.
Section 14 Transport in bulk – Regulation Data information was deleted.
Section 14 UN Number Column data information was deleted.
Section 15: Seveso Substance Text information was deleted.

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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.