



Safety Data Sheet

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Document Group:	40-6705-4	Version Number:	2.00
Issue Date:	11/02/2026	Supersedes Date:	14/01/2021

This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

SECTION 1: Identification

1.1. Product identifier

3M™ Perfect-It™ Gelcoat Heavy Cutting Compound, 36101, 36102, 36103, 36104

Product Identification Numbers

60-4551-0951-6 60-4551-0952-4 60-4551-0953-2 60-4551-0954-0

1.2. Recommended use and restrictions on use

Recommended use

Automotive

For Industrial or Professional use only

1.3. Supplier's details

ADDRESS: 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor

Telephone: 03-7884 2888

E Mail: 3mmyehsr@mmm.com

Website: www.3M.com.my

1.4. Emergency telephone number

+60 03-7884 2888

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Skin Sensitizer: Category 1.

Chronic Aquatic Toxicity: Category 3.

2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

Pictograms



Hazard Statements:

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

Precautionary statements

General:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Prevention:

P280E	Wear protective gloves.
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Response:

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

P501	Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.
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2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	30 - 60
Aluminum Oxide	1344-28-1	10 - 30
Hydrotreated Light Petroleum Distillates	64742-47-8	10 - 30
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	3 - 7
Polyethylene-Polypropylene Glycol	9003-11-6	3 - 7
Mineral Oil	8042-47-5	1 - 5
Glycerin	56-81-5	0.5 - 1.5
Diethanolamine	111-42-2	<= 0.25
2-Methyl-4-isothiazoline-3-one	2682-20-4	< 0.009
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	< 0.007

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:

No need for first aid is anticipated. 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

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. Suitable 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

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

5.3. Special protective actions 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 vapors, in accordance with good industrial hygiene practice.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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 authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable

local/regional/national/international regulations.

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/vapors/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 (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

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	C.A.S. No.	Agency	Limit type	Additional Comments
Diethanolamine	111-42-2	ACGIH	TWA(inhalable fraction and vapor):1 mg/m ³	A3: Confirmed animal carcin., Danger of cutaneous absorption
Diethanolamine	111-42-2	Malaysia OELs	TWA(8 hours):2 mg/m ³ (0.46 ppm)	SKIN
Aluminum Oxide	1344-28-1	Malaysia OELs	TWA (proposed)(8 hours):10 mg/m ³	
Glycerin	56-81-5	Malaysia OELs	TWA(as mist)(8 hours):10 mg/m ³	
Particulates not Otherwise Classified (PNOC), Inhalable particulate	56-81-5	Malaysia OELs	TWA (proposed)(respirable particles)(8 hours):3 mg/m ³ ;TWA (proposed)(Inhalable particulate)(8 hours):10 mg/m ³	
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction	64742-47-8	ACGIH	TWA(inhalable fraction):5 mg/m ³	A4: Not class. as human carcin
Mineral oil, excluding metal working fluids, pure, highly and severely refined, inhalable fraction	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m ³	A4: Not class. as human carcin
Oil mist, mineral	8042-47-5	Malaysia OELs	TWA(as mist)(8 hours):5 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

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: Polymer laminate

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
Specific Physical Form:	Gel
Color	White
Odor	Slight Solvent
Odor threshold	No Data Available
pH	7.5 - 9
Melting point/Freezing point	No Data Available
Boiling point/Initial boiling point/Boiling range	No Data Available
Flash Point	No flash point
Evaporation rate	No Data Available
Flammability	Not Applicable
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Vapor Pressure	No Data Available
Relative Vapor Density	No Data Available
Density	1.1 - 1.1 kg/l [Ref Std: WATER=1]
Relative Density	1.05 - 1.1 [Ref Std: WATER=1]
Water solubility	No Data Available
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Kinematic Viscosity	32,558 mm ² /sec
Volatile Organic Compounds	14.5 % weight [Test Method:calculated per CARB title 2]
Percent volatile	60.3 % weight
VOC Less H ₂ O & Exempt Solvents	323 g/l [Test Method:calculated SCAQMD rule 443.1]

Average particle size	<i>No Data Available</i>
Bulk density	<i>No Data Available</i>
Molecular weight	<i>No Data Available</i>
Softening point	<i>No Data Available</i>

* 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 characterization testing based on the use factors at the specific facility.

Particle Characteristics	<i>Not Applicable</i>
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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 polymerization will not occur.

10.4. Conditions to avoid

None known.

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 be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

No known health effects.

Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized 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 diarrhea.

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-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Aluminum Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 15,000 mg/kg
Hydrotreated Light Petroleum Distillates	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
Mineral Oil	Dermal	Rabbit	LD50 > 2,000 mg/kg
Mineral Oil	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
Diethanolamine	Dermal	Rabbit	LD50 8,180 mg/kg
Diethanolamine	Ingestion	Rat	LD50 1,410 mg/kg
2-Methyl-4-isothiazoline-3-one	Dermal	Rat	LD50 242 mg/kg
2-Methyl-4-isothiazoline-3-one	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.11 mg/l
2-Methyl-4-isothiazoline-3-one	Ingestion	Rat	LD50 120 mg/kg

2-OCTYL-3(2H)-ISOTHIAZOLONE	Dermal	Rabbit	LD50 311 mg/kg
2-OCTYL-3(2H)-ISOTHIAZOLONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.27 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	Ingestion	Rat	LD50 125 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
Hydrotreated Light Petroleum Distillates	similar compounds	Mild irritant
Polyethylene Glycol Sorbitan Monooleate	Rabbit	No significant irritation
Polyethylene-Polypropylene Glycol	similar compounds	No significant irritation
Mineral Oil	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
Diethanolamine	Rabbit	Irritant
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-OCTYL-3(2H)-ISOTHIAZOLONE	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Aluminum Oxide	Rabbit	No significant irritation
Hydrotreated Light Petroleum Distillates	similar compounds	No significant irritation
Polyethylene Glycol Sorbitan Monooleate	Rabbit	No significant irritation
Polyethylene-Polypropylene Glycol	similar compounds	No significant irritation
Mineral Oil	Rabbit	Mild irritant
Glycerin	Rabbit	No significant irritation
Diethanolamine	Rabbit	Corrosive
2-Methyl-4-isothiazoline-3-one	Rabbit	Corrosive
2-OCTYL-3(2H)-ISOTHIAZOLONE	similar health hazards	Corrosive

Sensitization:**Skin Sensitization**

Name	Species	Value
Hydrotreated Light Petroleum Distillates	similar compounds	Not classified
Polyethylene Glycol Sorbitan Monooleate	Guinea pig	Not classified
Polyethylene-Polypropylene Glycol	Guinea pig	Not classified
Mineral Oil	Guinea pig	Not classified
Glycerin	Guinea pig	Not classified
Diethanolamine	Human and animal	Not classified
2-Methyl-4-isothiazoline-3-one	Human and	Sensitizing

	animal	
2-OCTYL-3(2H)-ISOTHIAZOLONE	Human and animal	Sensitizing

Photosensitization

Name	Species	Value
2-Methyl-4-isothiazoline-3-one	Human and animal	Not sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
Aluminum Oxide	In Vitro	Not mutagenic
Hydrotreated Light Petroleum Distillates	In Vitro	Not mutagenic
Polyethylene Glycol Sorbitan Monooleate	In Vitro	Not mutagenic
Polyethylene-Polypropylene Glycol	In Vitro	Not mutagenic
Mineral Oil	In Vitro	Not mutagenic
Diethanolamine	In Vitro	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In vivo	Not mutagenic
2-Methyl-4-isothiazoline-3-one	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-OCTYL-3(2H)-ISOTHIAZOLONE	In Vitro	Not mutagenic
2-OCTYL-3(2H)-ISOTHIAZOLONE	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Aluminum Oxide	Inhalation	Rat	Not carcinogenic
Polyethylene Glycol Sorbitan Monooleate	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Mineral Oil	Dermal	Mouse	Not carcinogenic
Mineral Oil	Inhalation	Multiple animal species	Not carcinogenic
Glycerin	Ingestion	Mouse	Some positive data exist, but the data are not sufficient for classification
Diethanolamine	Dermal	Mouse	Carcinogenic
2-Methyl-4-isothiazoline-3-one	Dermal	Mouse	Not carcinogenic
2-Methyl-4-isothiazoline-3-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
Mineral Oil	Ingestion	Not classified for female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
Mineral Oil	Ingestion	Not classified for male reproduction	Rat	NOAEL	13 weeks

				4,350 mg/kg/day	
Mineral Oil	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
Diethanolamine	Ingestion	Not classified for male reproduction	Rat	NOAEL 128 mg/kg/day	1 generation
Diethanolamine	Dermal	Not classified for development	Rabbit	NOAEL 100 mg/kg/day	during organogenesis
Diethanolamine	Inhalation	Not classified for development	Rat	NOAEL 0.05 mg/l	during organogenesis
Diethanolamine	Ingestion	Toxic to female reproduction	Rat	NOAEL 38 mg/kg/day	1 generation
Diethanolamine	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	1 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	2 generation
2-Methyl-4-isothiazoline-3-one	Ingestion	Not classified for development	Rat	NOAEL 15 mg/kg/day	during organogenesis
2-OCTYL-3(2H)-ISOTHIAZOLONE	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
Hydrotreated Light Petroleum Distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Diethanolamine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL not available	
Diethanolamine	Ingestion	kidney and/or bladder	May cause damage to organs	Rat	NOAEL 200 mg/kg	
Diethanolamine	Ingestion	central nervous system depression	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 200 mg/kg	not applicable
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 1,600 mg/kg	not applicable
2-Methyl-4-isothiazoline-3-one	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
2-OCTYL-3(2H)-ISOTHIAZOLONE	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
Aluminum Oxide	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Hydrotreated Light	Inhalation	liver	Not classified	Rat	NOAEL 6	13 weeks

Petroleum Distillates					mg/l	
Hydrotreated Light Petroleum Distillates	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.5 mg/l	13 weeks
Hydrotreated Light Petroleum Distillates	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 100 mg/kg/day	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Hydrotreated Light Petroleum Distillates	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Polyethylene Glycol Sorbitan Monooleate	Ingestion	heart	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	endocrine system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	liver	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	immune system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	nervous system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Polyethylene Glycol Sorbitan Monooleate	Ingestion	respiratory system	Not classified	Rat	NOAEL 4,132 mg/kg/day	90 days
Mineral Oil	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,381 mg/kg/day	90 days
Mineral Oil	Ingestion	liver	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Mineral Oil	Ingestion	immune system	Not classified	Rat	NOAEL 1,336 mg/kg/day	90 days
Glycerin	Inhalation	respiratory system	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	heart	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	liver	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerin	Ingestion	endocrine system	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 10,000	2 years

					mg/kg/day	
Glycerin	Ingestion	liver	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Glycerin	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Diethanolamine	Dermal	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 63 mg/kg/day	13 weeks
Diethanolamine	Dermal	liver	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	skin	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
Diethanolamine	Dermal	heart	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	muscles	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	eyes	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Dermal	vascular system	Not classified	Rat	NOAEL 500 mg/kg/day	13 weeks
Diethanolamine	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	liver	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.015 mg/l	13 weeks
Diethanolamine	Inhalation	heart	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	skin	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	immune system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	muscles	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	nervous system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	eyes	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Inhalation	vascular system	Not classified	Rat	NOAEL 0.41 mg/l	13 weeks
Diethanolamine	Ingestion	hematopoietic system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 15 mg/kg/day	13 weeks

Diethanolamine	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 57 mg/kg/day	13 weeks
Diethanolamine	Ingestion	endocrine system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	liver	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	heart	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	skin	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	immune system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	muscles	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	eyes	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	respiratory system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks
Diethanolamine	Ingestion	vascular system	Not classified	Rat	NOAEL 240 mg/kg/day	13 weeks

Aspiration Hazard

Name	Value
Hydrotreated Light Petroleum Distillates	Aspiration hazard
Mineral Oil	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.

SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Acute aquatic hazard:

GHS Acute 3: Harmful to aquatic life.

Chronic aquatic hazard:

GHS Chronic 3: Harmful to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Aluminum Oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Hydrotreated Light Petroleum	64742-47-8	Green algae	Experimental	72 hours	EL50	>1,000 mg/l

3M™ Perfect-It™ Gelcoat Heavy Cutting Compound, 36101, 36102, 36103, 36104

Distillates						
Hydrotreated Light Petroleum Distillates	64742-47-8	Rainbow Trout	Experimental	96 hours	LL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Hydrotreated Light Petroleum Distillates	64742-47-8	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
Mineral Oil	8042-47-5	Water flea	Analogous Compound	48 hours	EL50	>100 mg/l
Mineral Oil	8042-47-5	Bluegill	Experimental	96 hours	LL50	>100 mg/l
Mineral Oil	8042-47-5	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l
Mineral Oil	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
Diethanolamine	111-42-2	Brine shrimp	Experimental	24 hours	EC50	2,800 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	EC50	86.96 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC50	9.5 mg/l
Diethanolamine	111-42-2	Rainbow Trout	Experimental	96 hours	LC50	460 mg/l
Diethanolamine	111-42-2	Sheepshead Minnow	Experimental	96 hours	LC50	>589 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	48 hours	EC50	30.1 mg/l
Diethanolamine	111-42-2	Diatom	Experimental	72 hours	NOEC	<16 mg/l
Diethanolamine	111-42-2	Green algae	Experimental	72 hours	ErC10	1.4 mg/l
Diethanolamine	111-42-2	Water flea	Experimental	21 days	NOEC	0.78 mg/l
Diethanolamine	111-42-2	Activated sludge	Experimental	30 minutes	EC10	>1,000 mg/l
Diethanolamine	111-42-2	Plant	Experimental	21 days	EC50	1,632 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Redworm	Experimental	63 days	EC50	776 mg/kg (Dry Weight)
Diethanolamine	111-42-2	Springtail	Experimental	28 days	EC50	4,205 mg/kg (Dry Weight)
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC50	0.099 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	ErC50	0.23 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Mysid Shrimp	Experimental	96 hours	LC50	1.81 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Sheepshead Minnow	Experimental	96 hours	LC50	25.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	48 hours	LC50	0.934 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Blackworm	Experimental	28 days	NOEC	25 mg/kg (Dry Weight)
2-Methyl-4-isothiazoline-3-one	2682-20-4	Diatom	Experimental	72 hours	ErC10	0.04 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Fathead Minnow	Experimental	33 days	NOEC	2.1 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Green algae	Experimental	96 hours	NOEC	0.12 mg/l

2-Methyl-4-isothiazoline-3-one	2682-20-4	Water flea	Experimental	21 days	NOEC	0.044 mg/l
2-Methyl-4-isothiazoline-3-one	2682-20-4	Activated sludge	Experimental	3 hours	EC50	41 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Diatom	Experimental	72 hours	EC50	0.0015 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Green algae	Experimental	72 hours	EC50	0.084 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Mysid Shrimp	Experimental	96 hours	LC50	0.071 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Rainbow Trout	Experimental	96 hours	LC50	0.036 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Sheepshead Minnow	Experimental	96 hours	LC50	0.18 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Water flea	Experimental	48 hours	EC50	0.42 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Diatom	Experimental	72 hours	NOEC	0.00068 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Green algae	Experimental	72 hours	NOEC	0.0156 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Water flea	Experimental	21 days	NOEC	0.0016 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Activated sludge	Experimental	3 hours	EC50	30.4 mg/l
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Bobwhite quail	Experimental	14 days	LD50	384 ppm diet
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Lettuce	Experimental	17 days	EC50	45 mg/kg (Dry Weight)
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Redworm	Experimental	14 days	LC50	866 mg/kg (Dry Weight)
2-OCTYL-3(2H)-ISOTHIAZOLONE	26530-20-1	Soil microbes	Experimental	28 days	EC50	84.1 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Aluminum Oxide	1344-28-1	Data not available - insufficient	N/A	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	Estimated Biodegradation	28 days	Biological Oxygen Demand	69 %BOD/ThOD	OECD 301F - Manometric Respiro
Polyethylene Glycol Sorbitan Monooleate	9005-65-6	Experimental Biodegradation	28 days	Carbon dioxide evolution	61 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Polyethylene-Polypropylene Glycol	9003-11-6	Data not available - insufficient	N/A	N/A	N/A	N/A
Mineral Oil	8042-47-5	Experimental Biodegradation	28 days	Carbon dioxide evolution	0 %CO2 evolution/THCO2	OECD 301B - Mod. Sturm or CO2

					evolution	
Glycerin	56-81-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	63 %BOD/ThOD	OECD 301C - MITI (I)
Diethanolamine	111-42-2	Experimental Biodegradation	28 days	Biological Oxygen Demand	93 %BOD/ThOD	OECD 301F - Manometric Respiro
Diethanolamine	111-42-2	Experimental Biodegradation	9 days	Dissolv. Organic Carbon Deplet	98 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Biodegradation	29 days	Carbon dioxide evolution	50 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
2-OCTYL-3(2H)-ISOTHIAZOLON E	26530-20-1	Experimental Biodegradation	28 days	Biological Oxygen Demand	< 10 %BOD/ThOD	OECD 301D - Closed Bottle Test
2-OCTYL-3(2H)-ISOTHIAZOLON E	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
Aluminum Oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Hydrotreated Light Petroleum Distillates	64742-47-8	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 of Octanol/H2O part. coeff	5.61	Episuite™
Polyethylene-Polypropylene Glycol	9003-11-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Mineral Oil	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 of Octanol/H2O part. coeff	-1.75	similar to OECD 107
Diethanolamine	111-42-2	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-2.18	OECD 107 log Kow shke flask mtd
2-Methyl-4-isothiazoline-3-one	2682-20-4	Analogous Compound BCF - Fish	56 days	Bioaccumulation Factor	5.75	
2-Methyl-4-isothiazoline-3-one	2682-20-4	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-0.486	OECD 107 log Kow shke flask mtd
2-OCTYL-3(2H)-ISOTHIAZOLON E	26530-20-1	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.92	OECD 117 log Kow HPLC method

12.4. Mobility in soil

Please contact manufacturer for more details

12.5 Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

SECTION 14: Transport Information

Not hazardous for transportation.

Marine Transport (IMDG)

UN Number:None assigned.

Proper Shipping Name:None assigned.

Technical Name:None assigned.

Hazard Class/Division:None assigned.

Subsidiary Risk:None assigned.

Packing Group:None assigned.

Limited Quantity:None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Air Transport (IATA)

UN Number:None assigned.

Proper Shipping Name:None assigned.

Technical Name:None assigned.

Hazard Class/Division:None assigned.

Subsidiary Risk:None assigned.

Packing Group:None assigned.

Limited Quantity:None assigned.

Marine Pollutant: None assigned.

Marine Pollutant Technical Name: None assigned.

Other Dangerous Goods Descriptions:

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this 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.

SECTION 16: Other information

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation 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 Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

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