



Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

SECTION 1: Identification

1.1. Product identifier

3M™ Perfect-It™ EX AC Rubbing Compound, 36057, 36058, 36060, 36061, 36062, 36063

Product Identification Numbers

60-4551-0942-5

1.2. Recommended use and restrictions on use

Recommended use

Automotive.

For Industrial or Professional use only

1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone: (09) 477 4040
E Mail: innovation@nz.mmm.com
Website: 3m.co.nz

1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

SECTION 2: Hazard identification

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

Skin sensitisation: Category 1

2.2. Label elements

SIGNAL WORD

Warning

Symbols:

Exclamation mark |

Pictograms



HAZARD STATEMENTS:

H317 May cause an allergic skin reaction.

PRECAUTIONARY STATEMENTS

General

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

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280E Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal

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

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	40 - 70
Hydrotreated Light Alkanes	64742-47-8	10 - 30
Aluminum Oxide (non-fibrous)	1344-28-1	10 - 20
Glycerin	56-81-5	1 - 5
White Mineral Oil (Petroleum)	8042-47-5	1 - 5
Fatty Organic Compound	Trade Secret	<= 1
Alcohols, C10-16	67762-41-8	<= 1
2-Methyl-4-Isothiazoline-3-One	2682-20-4	< 0.01

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 CLP classification include:

4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Material will not burn. 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

<u>Substance</u>	<u>Condition</u>
Hydrocarbons.	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	During combustion.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with 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 in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

Keep out of reach of children. 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.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

7.3. Certified handler

Not required

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
Aluminum Oxide (non-fibrous)	1344-28-1	New Zealand WES	TWA(8 hours):10 mg/m ³	
Aluminum, insoluble compounds	1344-28-1	ACGIH	TWA(respirable fraction):1 mg/m ³	A4: Not class. as human carcinogen
Glycerin	56-81-5	New Zealand WES	TWA(as mist)(8 hours):10 mg/m ³	
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon vapor, non-aerosol):200 mg/m ³	A3: Confirmed animal carcin., SKIN
Mineral oils, highly-refined oils	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m ³	A4: Not class. as human carcinogen
Paraffin oil	8042-47-5	New Zealand WES	TWA(as mist)(8 hours):5 mg/m ³ ;STEL(as mist)(15 minutes):10 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety glasses with side shields.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for particulates.

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

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	White
Odour	Slight Pine
Odour threshold	<i>No data available.</i>
pH	7.5 - 9
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	<i>No data available.</i>
Flash point	No flash point
Evaporation rate	<i>No data available.</i>
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Vapor Density and/or Relative Vapor Density	<i>No data available.</i>
Density	1.1 - 1.1 kg/l
Relative density	1.05 - 1.1 [Ref Std: WATER=1]
Water solubility	<i>No data available.</i>
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>

Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity/Kinematic Viscosity	20,000 - 70,000 mPa-s
Volatile organic compounds (VOC)	16.2 % weight [<i>Test Method</i> :calculated per CARB title 2]
Percent volatile	77.5 % weight
VOC less H2O & exempt solvents	498 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]
Molecular weight	<i>Not applicable.</i>

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Substance

None known.

Condition

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 labelling, 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

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

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.

Eye contact

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing and corneal abrasion.

Ingestion

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

Toxicological Data

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

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrotreated Light Alkanes	Ingestion	Rat	LD50 > 15,000 mg/kg
Hydrotreated Light Alkanes	Dermal	similar compounds	LD50 > 5,000 mg/kg
Aluminum Oxide (non-fibrous)	Dermal		LD50 estimated to be > 5,000 mg/kg
Aluminum Oxide (non-fibrous)	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 2.3 mg/l
Aluminum Oxide (non-fibrous)	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
White Mineral Oil (Petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White Mineral Oil (Petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Fatty Organic Compound	Ingestion	Rat	LD50 > 2,000 mg/kg
Fatty Organic Compound	Dermal	similar compounds	LD50 > 5,000 mg/kg
Fatty Organic Compound	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 17.5 mg/l
Alcohols, C10-16	Dermal	Rat	LD50 > 2,000 mg/kg
Alcohols, C10-16	Ingestion	Rat	LD50 > 2,000 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

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Hydrotreated Light Alkanes	similar compounds	Mild irritant
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation
Glycerin	Rabbit	No significant irritation
White Mineral Oil (Petroleum)	Rabbit	No significant irritation
Fatty Organic Compound	Human	No significant irritation
Alcohols, C10-16	Rabbit	Mild irritant
2-Methyl-4-Isothiazoline-3-One	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Hydrotreated Light Alkanes	similar compounds	No significant irritation
Aluminum Oxide (non-fibrous)	Rabbit	No significant irritation

Glycerin	Rabbit	No significant irritation
White Mineral Oil (Petroleum)	Rabbit	Mild irritant
Fatty Organic Compound	Rabbit	Severe irritant
Alcohols, C10-16	Rabbit	Mild irritant
2-Methyl-4-Isothiazoline-3-One	Rabbit	Corrosive

Sensitisation:

Skin Sensitisation

Name	Species	Value
Hydrotreated Light Alkanes	similar compounds	Not classified
Glycerin	Guinea pig	Not classified
White Mineral Oil (Petroleum)	Guinea pig	Not classified
Fatty Organic Compound	Guinea pig	Not classified
Alcohols, C10-16	Guinea pig	Not classified
2-Methyl-4-Isothiazoline-3-One	Human and animal	Sensitising

Photosensitisation

Name	Species	Value
2-Methyl-4-Isothiazoline-3-One	Human and animal	Not sensitizing

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name	Route	Value
Hydrotreated Light Alkanes	In Vitro	Not mutagenic
Aluminum Oxide (non-fibrous)	In Vitro	Not mutagenic
White Mineral Oil (Petroleum)	In Vitro	Not mutagenic
Fatty Organic Compound	In Vitro	Not mutagenic
Fatty Organic Compound	In vivo	Not mutagenic
Alcohols, C10-16	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

Carcinogenicity

Name	Route	Species	Value
Aluminum Oxide (non-fibrous)	Inhalation	Rat	Not carcinogenic
Glycerin	Ingestion	Mouse	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
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
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
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
Fatty Organic Compound	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	premating into lactation
Fatty Organic Compound	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	41 days
Fatty Organic Compound	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	premating into lactation
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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydrotreated Light Alkanes	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Fatty Organic Compound	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Alcohols, C10-16	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-Methyl-4-Isothiazoline-3-One	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydrotreated Light Alkanes	Inhalation	liver	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrotreated Light Alkanes	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.5 mg/l	13 weeks
Hydrotreated Light Alkanes	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Hydrotreated Light	Ingestion	liver	Not classified	Rat	NOAEL	13 weeks

Alkanes					1,000 mg/kg/day	
Hydrotreated Light Alkanes	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 100 mg/kg/day	13 weeks
Hydrotreated Light Alkanes	Ingestion	hematopoietic system eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Aluminum Oxide (non-fibrous)	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Aluminum Oxide (non-fibrous)	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
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
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
Alcohols, C10-16	Ingestion	kidney and/or bladder heart endocrine system liver nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days

Aspiration Hazard

Name	Value
Hydrotreated Light Alkanes	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.

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 labelling, 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

Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 2

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Hydrotreated Light Alkanes	64742-47-8	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Hydrotreated Light Alkanes	64742-47-8	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l
Hydrotreated Light Alkanes	64742-47-8	Water flea	Experimental	48 hours	EL50	>1,000 mg/l

Hydrotreated Light Alkanes	64742-47-8	Green algae	Experimental	72 hours	NOEL	1,000 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	N/A	Experimental	96 hours	LC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Water flea	Experimental	48 hours	LC50	>100 mg/l
Aluminum Oxide (non-fibrous)	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Glycerin	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 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
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
Alcohols, C10-16	67762-41-8	Green algae	Analogous Compound	72 hours	ErC50	0.66 mg/l
Alcohols, C10-16	67762-41-8	Rainbow trout	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Alcohols, C10-16	67762-41-8	Water flea	Experimental	48 hours	EC50	0.23 mg/l
Alcohols, C10-16	67762-41-8	Green algae	Analogous Compound	72 hours	NOEC	0.085 mg/l
Fatty Organic Compound	Trade Secret	Ciliated protozoa	Experimental	48 hours	IC50	1.58 mg/l
Fatty Organic Compound	Trade Secret	Fathead minnow	Experimental	96 hours	LC50	1.01 mg/l
Fatty Organic Compound	Trade Secret	Green algae	Experimental	72 hours	ErC50	0.66 mg/l
Fatty Organic Compound	Trade Secret	Water flea	Experimental	48 hours	EC50	0.765 mg/l
Fatty Organic Compound	Trade Secret	Green algae	Experimental	72 hours	NOEC	0.085 mg/l
Fatty Organic Compound	Trade Secret	Water flea	Experimental	21 days	NOEC	0.014 mg/l
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

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Hydrotreated Light Alkanes	64742-47-8	Estimated Biodegradation	28 days	BOD	69 %BOD/ThO D	OECD 301F - Manometric respirometry
Aluminum Oxide (non- fibrous)	1344-28-1	Data not availbl- insufficient	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThO D	OECD 301C - MITI test (I)
White Mineral Oil (Petroleum)	8042-47-5	Experimental Biodegradation	28 days	CO2 evolution	0 %CO2 evolution/THC O2 evolution	OECD 301B - Modified sturm or CO2
Alcohols, C10- 16	67762-41-8	Experimental Biodegradation	28 days	BOD	≥80 %BOD/Th OD	OECD 301F - Manometric respirometry
Alcohols, C10- 16	67762-41-8	Experimental Photolysis		Photolytic half- life (in air)	2.2 days (t 1/2)	
Fatty Organic Compound	Trade Secret	Experimental Biodegradation	28 days	BOD	100 %BOD/CO D	
2-Methyl-4- Isothiazoline-3- One	2682-20-4	Experimental Biodegradation	29 days	CO2 evolution	50 %CO2 evolution/THC O2 evolution	OECD 301B - Modified 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

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Hydrotreated Light Alkanes	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Aluminum Oxide (non-fibrous)	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Glycerin	56-81-5	Experimental Bioconcentration		Log Kow	-1.76	
White Mineral Oil (Petroleum)	8042-47-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Alcohols, C10-16	67762-41-8	Modeled Bioconcentration		Bioaccumulation factor	117	Catalogic™
Alcohols, C10-16	67762-41-8	Modeled Bioconcentration		Bioaccumulation factor	661	Catalogic™
Alcohols, C10-16	67762-41-8	Experimental Bioconcentration		Log Kow	4.8	
Fatty Organic Compound	Trade Secret	Modeled Bioconcentration		Bioaccumulation factor	117	Catalogic™
Fatty Organic Compound	Trade Secret	Experimental Bioconcentration		Log Kow	5.13	
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 Kow	-0.486	OECD 107 log Kow shke flsk mtd

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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste. 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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

SECTION 14: Transport Information

New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

HSNO Approval number HSR002670

Group standard name Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

HSNO Hazard classification Refer to Section 2: Hazard identification

NZ Inventory of Chemicals (NZIoC) Status

All ingredients are listed on the New Zealand Inventory of Chemicals.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic

Secondary containment	environment Category 4 substances) 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Tracking	Not required
Warning signage	100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

SECTION 16: Other information

Revision information:

Initial issue.

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Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017

HSNO means Hazardous Substances and New Organisms Act 1996

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