



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand Hazardous Substances and New Organisms Act 1996 (HSNO Act) and as amended.

### SECTION 1: Identification

#### 1.1. Product identifier

3M(TM) Perfect-It(TM) Rubbing Compound PN 06085, 06086, 06087, 39060, 6070

#### Product identification numbers

60-4550-5180-9      60-4550-5181-7      60-4550-5256-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive.

#### 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

#### 2.1. Classification of the substance or mixture

Classified as hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

Not classified as a Dangerous Good according to; NZS 5433:2012 Transport of Dangerous Goods on Land, UN, IMDG and IATA.

#### HSNO classification

6.5B Skin sensitiser

#### 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.  
P103 Read label before use.

**Prevention:**

P104 Read Safety Data Sheet before use.  
P280E Wear protective gloves.

**Response:**

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

**SECTION 3: Composition/information on ingredients**

Ingredient	CAS Nbr	% by Weight
Water	7732-18-5	40 - 70
Kerosine (petroleum)	8008-20-6	10 - 30
Aluminium oxide	1344-28-1	10 - 30
Castor oil	8001-79-4	1 - 5
White mineral oil (petroleum)	8042-47-5	0.5 - 1.5
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide	26316-40-5	0.1 - 1
Undecan-1-ol, ethoxylated	34398-01-1	0.1 - 1
Oils, sweet orange (terpenes and terpenoids)	68647-72-3	< 0.5
Naphthalene	91-20-3	< 0.08

**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

See Section 11.1 Information on toxicological effects

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

#### 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>
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	During combustion.

#### 5.3. Special protective actions for fire-fighters

No unusual fire or explosion hazards are anticipated.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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 toxic, corrosivity or flammability hazard. 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 detergent and water. Seal the container. Dispose of collected material as soon as possible.

### SECTION 7: Handling and storage

Refer to Section 15 - HSNO controls for more information

#### 7.1. Precautions for safe handling

Store work clothes separately from other clothing, food and tobacco products. 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. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Store away from areas where product may come into contact with food or pharmaceuticals.

### 7.3. Approved handler test certificate

Not required

## **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

#### Occupational exposure limits

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Aluminium oxide	1344-28-1	New Zealand WES	TWA(8 hours):10 mg/m <sup>3</sup>	
Kerosine (petroleum)	8008-20-6	New Zealand WES	Limit value not established:	
Paraffin oil	8042-47-5	New Zealand WES	TWA(as mist)(8 hours):5 mg/m <sup>3</sup> ;STEL(as mist)(15 minutes):10 mg/m <sup>3</sup>	
Naphthalene	91-20-3	New Zealand WES	TWA(8 hours):52 mg/m <sup>3</sup> (10 ppm);STEL(15 minutes):79 mg/m <sup>3</sup> (15 ppm)	

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide appropriate local exhaust ventilation on open containers. 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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Safety glasses with side shields.

Indirect vented goggles.

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

Wear protective gloves.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment.

Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

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

Nitrile rubber.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

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

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and 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

<b>Physical state</b>	Liquid.
<b>Appearance/Odour</b>	Creamy off-white liquid; Solvent odour
<b>Odour threshold</b>	<i>No data available.</i>
<b>pH</b>	7.5 - 8.5
<b>Boiling point/Initial boiling point/Boiling range</b>	100 °C
<b>Flash point</b>	No flash point
<b>Evaporation rate</b>	<i>No data available.</i>
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	<i>No data available.</i>
<b>Flammable Limits(UEL)</b>	<i>No data available.</i>
<b>Vapour pressure</b>	2,399.8 Pa [ <i>@ 20 °C</i> ]
<b>Density</b>	1.06 - 1.08 g/ml
<b>Relative density</b>	1.06 - 1.08 [ <i>Ref Std: WATER=1</i> ]
<b>Water solubility</b>	Moderate
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Autoignition temperature</b>	<i>No data available.</i>
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>Viscosity</b>	30 - 38 Pa-s [ <i>@ 25 °C</i> ] [ <i>Details:#6 Spindle</i> ]
<b>Hazardous air pollutants</b>	0.1 % weight [ <i>Test Method:Calculated</i> ]
<b>Volatile organic compounds (VOC)</b>	16.1 % weight [ <i>Test Method:calculated per CARB title 2</i> ]
<b>Volatile organic compounds (VOC)</b>	176 g/l [ <i>Test Method:calculated SCAQMD rule 443.1</i> ]
<b>Percent volatile</b>	80.6 %
<b>VOC less H2O &amp; exempt solvents</b>	563 g/l [ <i>Test Method:calculated SCAQMD rule 443.1</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

<u>Substance</u>	<u>Condition</u>
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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 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

Intentional concentration and inhalation may be harmful or fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. 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

Prolonged or repeated exposure may cause:

Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin.

Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye contact

Dust created by cutting, grinding, sanding, or machining may cause eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion

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

### Toxicological Data

#### Acute Toxicity

Name	Route	Species	Value
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Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE >5,000 mg/kg
Kerosine (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
Kerosine (petroleum)	Inhalation-Vapor (4 hours)	Rat	LC50 > 5 mg/l
Kerosine (petroleum)	Ingestion	Rat	LD50 > 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
Castor oil	Ingestion		LD50 estimated to be > 5,000
White mineral oil (petroleum)	Dermal	Rabbit	LD50 > 2,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide			Data not available or insufficient for classification
Undecan-1-ol, ethoxylated	Dermal	Rat	LD50 > 2,000 mg/kg
Undecan-1-ol, ethoxylated	Ingestion	Rat	LD50 > 2,000 mg/kg
Oils, sweet orange (terpenes and terpenoids)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Oils, sweet orange (terpenes and terpenoids)	Ingestion	Rat	LD50 4,400 mg/kg
Naphthalene	Dermal	Human	LD50 estimated to be 2,000 - 5,000 mg/kg
Naphthalene	Inhalation-Vapor	Human	LC50 estimated to be 20 - 50 mg/l
Naphthalene	Ingestion	Human	LD50 estimated to be 300 - 2,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Kerosine (petroleum)	Rabbit	Minimal irritation
Aluminium oxide	Rabbit	No significant irritation
Castor oil	Human	Minimal irritation
White mineral oil (petroleum)	Rabbit	No significant irritation
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide		Data not available or insufficient for classification
Undecan-1-ol, ethoxylated		Data not available or insufficient for classification
Oils, sweet orange (terpenes and terpenoids)	Rabbit	Mild irritant
Naphthalene	Rabbit	Minimal irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Kerosine (petroleum)	Rabbit	No significant irritation
Aluminium oxide	Rabbit	No significant irritation
Castor oil	Rabbit	Mild irritant
White mineral oil (petroleum)	Rabbit	Mild irritant
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide		Data not available or insufficient for classification
Undecan-1-ol, ethoxylated		Data not available or insufficient for classification
Oils, sweet orange (terpenes and terpenoids)	Rabbit	Mild irritant
Naphthalene	Rabbit	No significant irritation

**Skin Sensitisation**

Name	Species	Value
Kerosine (petroleum)	Guinea pig	Some positive data exist, but the data are not sufficient for classification
Aluminium oxide		Data not available or insufficient for

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		classification
Castor oil	Human	Some positive data exist, but the data are not sufficient for classification
White mineral oil (petroleum)	Guinea pig	Not sensitizing
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide		Data not available or insufficient for classification
Undecan-1-ol, ethoxylated		Data not available or insufficient for classification
Oils, sweet orange (terpenes and terpenoids)	Mouse	Sensitising
Naphthalene		Data not available or insufficient for classification

**Respiratory Sensitisation**

Name	Species	Value
Kerosine (petroleum)		Data not available or insufficient for classification
Aluminium oxide		Data not available or insufficient for classification
Castor oil		Data not available or insufficient for classification
White mineral oil (petroleum)		Data not available or insufficient for classification
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide		Data not available or insufficient for classification
Undecan-1-ol, ethoxylated		Data not available or insufficient for classification
Oils, sweet orange (terpenes and terpenoids)		Data not available or insufficient for classification
Naphthalene		Data not available or insufficient for classification

**Germ Cell Mutagenicity**

Name	Route	Value
Kerosine (petroleum)	In Vitro	Some positive data exist, but the data are not sufficient for classification
Kerosine (petroleum)	In vivo	Some positive data exist, but the data are not sufficient for classification
Aluminium oxide	In Vitro	Not mutagenic
Castor oil	In Vitro	Not mutagenic
Castor oil	In vivo	Not mutagenic
White mineral oil (petroleum)	In Vitro	Not mutagenic
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide		Data not available or insufficient for classification
Undecan-1-ol, ethoxylated		Data not available or insufficient for classification
Oils, sweet orange (terpenes and terpenoids)	In Vitro	Not mutagenic
Oils, sweet orange (terpenes and terpenoids)	In vivo	Not mutagenic
Naphthalene		Data not available or insufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Kerosine (petroleum)	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Aluminium oxide	Inhalation	Rat	Not carcinogenic
Castor oil			Data not available or insufficient for classification
White mineral oil (petroleum)	Dermal	Mouse	Not carcinogenic
White mineral oil (petroleum)	Inhalation	Multiple animal species	Not carcinogenic

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Ethylene oxide, polymer with Ethylenediamine and Propylene oxide			Data not available or insufficient for classification
Undecan-1-ol, ethoxylated			Data not available or insufficient for classification
Oils, sweet orange (terpenes and terpenoids)	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
Naphthalene	Inhalation	Multiple animal species	Carcinogenic.

**Reproductive Toxicity**
**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration
Kerosine (petroleum)	Dermal	Not toxic to female reproduction	Rat	NOAEL 494 mg/kg/day	prematuring & during gestation
Kerosine (petroleum)	Dermal	Not toxic to male reproduction	Rat	NOAEL 494 mg/kg/day	prematuring & during gestation
Kerosine (petroleum)	Dermal	Not toxic to development	Rat	NOAEL 494 mg/kg/day	prematuring & during gestation
Kerosine (petroleum)	Inhalation	Not toxic to development	Rat	NOAEL 400 ppm	during organogenesis
Aluminium oxide		Data not available or insufficient for classification			
Castor oil	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,800 mg/kg/day	13 weeks
Castor oil	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,800 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	Not toxic to development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide		Data not available or insufficient for classification			
Undecan-1-ol, ethoxylated		Data not available or insufficient for classification			
Oils, sweet orange (terpenes and terpenoids)	Ingestion	Not toxic to male reproduction	Rat	NOAEL 150 mg/kg/day	103 weeks
Oils, sweet orange (terpenes and terpenoids)	Ingestion	Some positive female reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 750 mg/kg/day	prematuring & during gestation
Oils, sweet orange (terpenes and terpenoids)	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesis
Naphthalene		Data not available or			

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		insufficient for classification			
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**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Kerosine (petroleum)	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL not available	occupational exposure
Kerosine (petroleum)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL not available	not available
Kerosine (petroleum)	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL not available	poisoning and/or abuse
Kerosine (petroleum)	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	not applicable
Kerosine (petroleum)	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 18,912 mg/kg	not applicable
Kerosine (petroleum)	Ingestion	heart   hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL not available	poisoning and/or abuse
Castor oil			Data not available or insufficient for classification			
White mineral oil (petroleum)			Data not available or insufficient for classification			
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide			Data not available or insufficient for classification			
Undecan-1-ol, ethoxylated			Data not available or insufficient for classification			
Oils, sweet orange (terpenes and terpenoids)	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Naphthalene	Ingestion	blood	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target	Value	Species	Test result	Exposure
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		<b>Organ(s)</b>				<b>Duration</b>
Kerosine (petroleum)	Dermal	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 500 mg/kg/day	13 weeks
Kerosine (petroleum)	Dermal	liver   immune system   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 2,700 mg/kg/day	1 weeks
Kerosine (petroleum)	Dermal	heart   muscles   respiratory system	All data are negative	Mouse	NOAEL 500 mg/kg/day	2 years
Kerosine (petroleum)	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL not available	1 years
Kerosine (petroleum)	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.231 mg/l	14 weeks
Kerosine (petroleum)	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification	Guinea pig	LOAEL 20.4 mg/l	not available
Kerosine (petroleum)	Inhalation	hematopoietic system   muscles   respiratory system	All data are negative	Multiple animal species	NOAEL 0.1 mg/l	13 weeks
Aluminium oxide	Inhalation	pneumoconiosis   pulmonary fibrosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Castor oil	Ingestion	heart   hematopoietic system   liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 4,800 mg/kg/day	13 weeks
Castor oil	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 13,000 mg/kg/day	13 weeks
White mineral oil (petroleum)	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,381 mg/kg/day	90 days
White mineral oil (petroleum)	Ingestion	liver   immune system	Some positive data exist, but the data are not	Rat	NOAEL 1,336 mg/kg/day	90 days

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			sufficient for classification			
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide			Data not available or insufficient for classification			
Undecan-1-ol, ethoxylated			Data not available or insufficient for classification			
Oils, sweet orange (terpenes and terpenoids)	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 75 mg/kg/day	103 weeks
Oils, sweet orange (terpenes and terpenoids)	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Oils, sweet orange (terpenes and terpenoids)	Ingestion	heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system	All data are negative	Rat	NOAEL 600 mg/kg/day	103 weeks
Naphthalene	Dermal	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Naphthalene	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL .01 mg/l	13 weeks
Naphthalene	Inhalation	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Inhalation	eyes	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Naphthalene	Ingestion	blood	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
Naphthalene	Ingestion	eyes	May cause damage to organs	Rabbit	LOAEL 500 mg/kg/day	15 days

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			though prolonged or repeated exposure			
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**Aspiration Hazard**

Name	Value
Kerosine (petroleum)	Aspiration hazard
Aluminium oxide	Not an aspiration hazard
Castor oil	Not an aspiration hazard
White mineral oil (petroleum)	Aspiration hazard
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide	Not an aspiration hazard
Undecan-1-ol, ethoxylated	Not an aspiration hazard
Oils, sweet orange (terpenes and terpenoids)	Aspiration hazard
Naphthalene	Not an 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**

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide	26316-40-5		Data not available or insufficient for classification			
White mineral oil (petroleum)	8042-47-5		Data not available or insufficient for classification			
Aluminium oxide	1344-28-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Aluminium oxide	1344-28-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
Aluminium oxide	1344-28-1	Fish	Experimental	96 hours	LC50	>100 mg/l
Aluminium oxide	1344-28-1	Green algae	Experimental	72 hours	NOEC	>100 mg/l
Undecan-1-ol, ethoxylated	34398-01-1	Fathead minnow	Experimental	96 hours	LC50	1.63 mg/l
Undecan-1-ol, ethoxylated	34398-01-1	Green algae	Experimental	96 hours	EC50	2.91 mg/l
Undecan-1-ol,	34398-01-1	Water flea	Experimental	48 hours	EC50	2.1 mg/l

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ethoxylated						
Undecan-1-ol, ethoxylated	34398-01-1	Fathead minnow	Experimental	30 days	NOEC	0.73 mg/l
Oils, sweet orange (terpenes and terpenoids)	68647-72-3	Fathead minnow	Experimental	96 hours	LC50	0.72 mg/l
Oils, sweet orange (terpenes and terpenoids)	68647-72-3	Water flea	Experimental	48 hours	EC50	0.421 mg/l
Castor oil	8001-79-4	Zebra Fish	Experimental	96 hours	LC50	>10,000 mg/l
Kerosine (petroleum)	8008-20-6		Data not available or insufficient for classification			
Naphthalene	91-20-3	Water flea	Experimental	48 hours	EC50	1.6 mg/l
Naphthalene	91-20-3	Rainbow trout	Experimental	96 hours	LC50	0.11 mg/l
Naphthalene	91-20-3	Green algae	Experimental	24 hours	EC50	33 mg/l

**12.2. Persistence and degradability**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide	26316-40-5	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
Aluminium oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Undecan-1-ol, ethoxylated	34398-01-1	Experimental Biodegradation	28 days	BOD	80 % weight	OECD 301D - Closed bottle test
Oils, sweet orange (terpenes and terpenoids)	68647-72-3	Estimated Photolysis		Photolytic half-life (in air)	2.3 hours (t 1/2)	Other methods
Oils, sweet orange (terpenes and terpenoids)	68647-72-3	Estimated Biodegradation	28 days	BOD	69 % weight	OECD 301C - MITI test (I)
Castor oil	8001-79-4	Experimental Biodegradation	28 days	BOD	64 % weight	OECD 301D - Closed bottle test
Kerosine (petroleum)	8008-20-6	Estimated Photolysis		Photolytic half-life (in air)	>2 days (t 1/2)	Other methods
Kerosine (petroleum)	8008-20-6	Experimental Biodegradation	28 days	BOD	58.6 % weight	OECD 301F - Manometric respirometry

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Naphthalene	91-20-3	Experimental Photolysis		Photolytic half-life (in air)	1.24 days (t <sub>1/2</sub> )	Other methods
Naphthalene	91-20-3	Estimated Biodegradation	28 days	BOD	3.2 % weight	OECD 301C - MITI test (I)

**12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Ethylene oxide, polymer with Ethylenediamine and Propylene oxide	26316-40-5	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
Aluminium oxide	1344-28-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Undecan-1-ol, ethoxylated	34398-01-1	Experimental BCF - Other	10 days	Bioaccumulation factor	309	Other methods
Oils, sweet orange (terpenes and terpenoids)	68647-72-3	Estimated BCF - Other		Bioaccumulation factor	2136	Other methods
Castor oil	8001-79-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Kerosine (petroleum)	8008-20-6	Estimated Bioconcentration		Log Kow	6	Other methods
Naphthalene	91-20-3	Experimental BCF-Carp	56 days	Bioaccumulation factor	23-146	OECD 305E - Bioaccumulation flow-through fish test

**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**

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal 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

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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

NOT HAZARDOUS FOR TRANSPORT

## SECTION 15: Regulatory information

HSNO Approval number HSR002670  
Group standard name Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006  
HSNO Hazard classification Refer to section 2

### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

### HSNO Controls

Approved handler test certificate	Not required
Location and transit Depot certification test	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance)
Secondary containment	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 6.1D, 6.5A, 6.5B, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.6A, 6.8A, 6.9A, 8.3A, 9.1D substance)
Tracking	Not required
Warning signage	100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.1D or 9.1D substance)

## SECTION 16: Other information

### Revision information:

Revision Changes:

Section 1: Product name information was modified.

Page Heading: Product name information was modified.

Section 1: Product identification numbers information was modified.

Aspiration Hazard Table information was modified.

Section 11: Acute Toxicity table information was modified.

Carcinogenicity Table information was modified.

Serious Eye Damage/Irritation Table information was modified.

Germ Cell Mutagenicity Table information was modified.

Skin Sensitisation Table information was modified.

Reproductive Toxicity Table information was modified.

Skin Corrosion/Irritation Table information was modified.

Target Organs - Repeated Table information was modified.

Target Organs - Single Table information was modified.

Section 11: Health Effects - Inhalation information information was modified.

Section 5: Fire - Extinguishing media information information was modified.

Section 7: Precautions safe handling information information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 2: NZ Symbols information was modified.  
Section 2: NZ Pictograms information was modified.  
Section 2: NZ Precautionary Statements - Prevention information was modified.  
Section 2: NZ Precautionary Statements - Response information was modified.  
Section 8: Skin protection - protective clothing text information was added.  
Section 9: Viscosity information information was added.  
Section 12: Component ecotoxicity information information was added.  
Section 12: Persistence and Degradability information information was added.  
Section 12: Biocumulative potential information information was added.  
Section 12: Component Ecotoxicity table Material column header information was added.  
Section 12: Component Ecotoxicity table CAS No column header information was added.  
Section 12: Component Ecotoxicity table Organism column header information was added.  
Section 12: Component Ecotoxicity table Type column header information was added.  
Section 12: Component Ecotoxicity table Exposure column header information was added.  
Section 12: Component Ecotoxicity table End point column header information was added.  
Section 12: Component Ecotoxicity table Result column header information was added.  
Section 12: Persistence and degradability table Material column header information was added.  
Section 12: Persistence and degradability table CAS No column header information was added.  
Section 12: Persistence and degradability table Test Type column header information was added.  
Section 12: Persistence and degradability table Duration column header information was added.  
Section 12: Persistence and degradability table Test Result column header information was added.  
Section 12: Persistence and degradability table Protocol column header information was added.  
Section 12: Biocumulative potential table Material column header information was added.  
Section 12: Biocumulative potential table CAS No column header information was added.  
Section 12: Biocumulative potential table CAS No column header information was added.  
Section 12: Biocumulative potential table Test Result column header information was added.  
Section 12: Biocumulative potential table Protocol column header information was added.  
Section 12: Biocumulative potential table Test Type column header information was added.  
Section 12: Persistence and degradability table Study Type column header information was added.  
Section 12: Biocumulative potential table Test Type column header information was added.  
Section 10: Hazardous decomposition products during combustion text information was added.  
Section 15: NZ Inventories information information was added.  
Section 9: Solubility in water value information was deleted.  
Prints No Data if Component ecotoxicity information is not present information was deleted.  
Prints No Data if Persistence and Degradability information is not present information was deleted.  
Prints No Data if Biocumulative potential information is not present information was deleted.  
Section 11: Target Organ Effects heading information was deleted.  
Section 11: Prolonged or repeated exposure may cause: heading information was deleted.  
Section 11: Prolonged or repeated exposure may cause standard phrases information was deleted.  
HSNO Classification. information was deleted.  
Section 2: NZ 6.9B Repeated Target Organ Hazard Statements information was deleted.  
Section 2: NZ Precautionary Statements - Disposal information was deleted.  
NZLLDG Precautionary - Disposal - Header information was deleted.

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SDS available directly from 3M.

**3M New Zealand SDS are available at 3M New Zealand Website: <http://solutions.3mnz.co.nz>**