



## Safety Data Sheet

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<b>Document group:</b>	24-8735-3	<b>Version number:</b>	5.00
<b>Issue Date:</b>	12/03/2018	<b>Supersedes date:</b>	26/03/2013

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

### IDENTIFICATION:

#### 1.1. Product identifier

3M™ Platinum Plus®, PN 0032, 01131, 01132, 01135B, 31181, 31139, 31632

#### Product Identification Numbers

60-4550-6546-0 70-0080-0095-5

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

##### Recommended use

Automotive., Auto Body Repair

#### 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)

**This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:**

29-5993-0, 24-8206-5

One or more components of this KIT is classified as a hazardous chemical according to the New Zealand, Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.

### TRANSPORT INFORMATION

The Components of this KIT have various Dangerous Goods Transportation Classifications. Please refer to the attached component Safety Data Sheets for individual Transportation Classifications.

**UN No.:**UN3269

**Proper shipping name:**POLYESTER RESIN KIT

**Class/Division:**3

**Packing Group:**III

**Marine Pollutant:**Not applicable.

**Hazchem Code:**-2YE

**IERG:**15

**Land Transport Rule: Dangerous Goods - Road/Rail Transport**

**Special Instructions:**Limited quantity may apply

**International Air Transport Association (IATA)- Air Transport**

**Special Instructions:**Forbidden, package size exceeds IATA quantity limitations

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**

**Special Instructions:**Limited quantity may apply

**Revision information:**

New Zealand Kit Class Division information was added.

New Zealand Kit Hazard Statements information was added.

New Zealand Kit Hazchem Code information was added.

New Zealand Kit Packing Group information was added.

New Zealand Kit Transportation Statement information was added.

New Zealand Kit UN Number information was added.

New Zealand Kit: IERG information was added.

Section 1: Product name information was modified.

Section 1: Product use information information was deleted.

US Section 01 Product Use - Recommended Use information was added.

Section 14: Marine Pollutant Technical Name information was added.

Section 14: Special Instructions ADG Group 1 information was added.

Section 14: Special Instructions IATA Group 1 information was added.

Section 14: Special Instructions IMDG Group 1 information was added.

Section 14: Transportation information information was deleted.

UN Proper Shipping Name information was added.

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



## Safety Data Sheet

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<b>Document group:</b>	24-8206-5	<b>Version number:</b>	4.00
<b>Issue Date:</b>	12/03/2018	<b>Supersedes date:</b>	31/10/2012

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

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Platinum Plus Filler, PN 0032, 01130, 01131, 01132, 01135, 01135B, 31135, 31181, 31139, 31361

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

##### Recommended use

Automotive., Body Repair

#### 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 as amended.

Classified as a Dangerous Good according to; New Zealand, Land Transport Rule: Dangerous Goods 2005 (Rule 45001/1) as amended, NZS 5433:2012 Transport of Dangerous Goods on Land, UN Model Regulations on the Transport of Dangerous Goods, International Maritime Dangerous Goods Code and IATA Dangerous Goods Regulations.

##### HSNO classification

3.1C Flammable liquid

6.1E Acute toxicity

6.3A Irritating to the skin

6.4A Irritating to the eye

6.7A Known/presumed human carcinogen

- 6.9A Toxic to human target organs/systems  
9.1B Aquatic toxicity  
9.3B Terrestrial vertebrate toxicity

## 2.2. Label elements

### SIGNAL WORD

DANGER!

### Symbols:

Flame | Health Hazard | Exclamation mark | Environment |

### Pictograms



### HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H303	May be harmful if swallowed.
H333	May be harmful if inhaled.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H350	May cause cancer.
H370	Causes damage to organs: liver   sensory organs
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system   sensory organs
H373	May cause damage to organs through prolonged or repeated exposure: liver
H411	Toxic to aquatic life with long lasting effects.
H432	Toxic to terrestrial vertebrates.
H433	Harmful to terrestrial vertebrates.

### PRECAUTIONARY STATEMENTS

#### General:

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

#### Prevention:

P104	Read Safety Data Sheet before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280E	Wear protective gloves.
P281	Use personal protective equipment as required.
P273	Avoid release to the environment.

**Response:**

P304 + P312

P305 + P351 + P338

P302 + P352

P332 + P313

P307 + P311

P331

P370 + P378G

IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF exposed: Call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**Storage:**

P405

Store locked up.

**Disposal:**

P501

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

**2.3. Other hazards**

May cause drowsiness or dizziness.

## SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Thickening Agent	Trade Secret	1 - 5
Poly(oxypropylene)diamine- (D2000)	9046-10-0	0.1 - 1
Styrene	100-42-5	10 - 30
Proprietary Polyester Resin	Trade Secret	10 - 30
Talc	14807-96-6	10 - 30
Inert Filler	Trade Secret	5 - 10
Magnesium carbonate	546-93-0	1 - 5
Limestone	1317-65-3	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Trizinc bis(orthophosphate)	7779-90-0	0.5 - 1.5
Quartz	14808-60-7	< 0.2

## 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**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

**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 fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**5.2. Special hazards arising from the substance or mixture**

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

**Hazardous Decomposition or By-Products**

**Substance**

Hydrocarbons.  
Carbon monoxide.  
Carbon dioxide.

**Condition**

During combustion.  
During combustion.  
During combustion.

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

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code: -3Y**

## SECTION 6: Accidental release measures

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

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors 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. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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 using non-sparking tools. Place in a metal 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: HSNO Controls for more information.

### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

### 7.3. Approved handler test certificate

Class 6, required when present in quantities greater than 10 L (HSNO 6.7A substance).

## 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.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>Agency</b>	<b>Limit type</b>	<b>Additional comments</b>
Styrene	100-42-5	ACGIH	TWA:20 ppm;STEL:40 ppm	A4: Not class. as human carcinogen
Styrene	100-42-5	New Zealand WES	TWA(8 hours): 213 mg/m <sup>3</sup> (50 ppm), STEL(15 minutes): 426 mg/m <sup>3</sup> (100 ppm).	SKIN, Class-subclass 6.7, carc HCA
Titanium dioxide	13463-67-7	ACGIH	TWA:10 mg/m <sup>3</sup>	A4: Not class. as human carcinogen
Titanium dioxide	13463-67-7	New Zealand WES	TWA(8 hours):10 mg/m <sup>3</sup>	
Dust, inert or nuisance	14807-96-6	New Zealand WES	TWA(as inhalable dust)(8 hours):10 mg/m <sup>3</sup>	
Talc	14807-96-6	New Zealand WES	TWA(as respirable dust)(8 hours):2 mg/m <sup>3</sup>	
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2 mg/m <sup>3</sup>	A4: Not class. as human carcinogen
Silica, crystalline (airborne particles of respirable size)	14808-60-7	New Zealand WES	TWA(as respirable dust)(8 hours): 0.1 mg/m <sup>3</sup>	Class-subclass 6.7, carc HCA
Quartz	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m <sup>3</sup>	A2: Suspected human carcin.
Magnesium carbonate	546-93-0	New Zealand WES	TWA(8 hours):10 mg/m <sup>3</sup>	
Inert Filler	Trade Secret	New Zealand WES	TWA(as inhalable dust)(8 hours):5 mg/m <sup>3</sup> ;TWA(as	

Inert Filler	Trade Secret ACGIH	respirable dust)(8 hours):1 f/mL;TWA(Respirable fibers)(8 hours):1 f/mL TWA(as fiber):0.2 fiber/cc;TWA(as fiber):1 fiber/cc;TWA(inhalable fraction):5 mg/m3	A3: Confirmed animal carcin., A4: Not class. as human carcin, A2: Suspected human carcin.
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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. Use explosion-proof ventilation equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

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

Indirect vented goggles.

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

#### 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

Physical state	Liquid.
Specific Physical Form:	Paste
Appearance/Odour	Pungent Styrene odour Gold paste
Odour threshold	<i>No data available.</i>
pH	<i>No data available.</i>
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	145 °C
Flash point	31.1 °C [ <i>Test Method</i> :Closed Cup]
Evaporation rate	0.1 - 0.5 [ <i>Ref Std</i> :BUOAC=1]
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	0.9 % [ <i>Details</i> :based on styrene]
Flammable Limits(UEL)	6.8 % [ <i>Details</i> :based on styrene]
Vapour pressure	599.9 Pa
Vapour density	3.6 [ <i>Ref Std</i> :AIR=1]
Density	0.984 g/ml
Relative density	0.984 [ <i>Ref Std</i> :WATER=1]
Water solubility	Negligible
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	144,000 mPa-s - 168,000 mPa-s
Volatile organic compounds (VOC)	23.7 % weight [ <i>Test Method</i> :calculated per CARB title 2]
Volatile organic compounds (VOC)	233 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]
Percent volatile	24.1 % weight
Percent volatile	26.2 % volume
VOC less H2O & exempt solvents	234 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]
Solids content	38.2 % weight

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable. Stable under normal conditions. May become unstable at elevated temperatures and/or pressure.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Sparks and/or flames.  
Heat.

### 10.5 Incompatible materials

Strong acids.  
Strong oxidising agents.  
Alkali and alkaline earth metals.  
Strong bases.

### 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

May be harmful if inhaled. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

##### Skin contact

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

##### Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Ingestion

May be harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

#### Additional Health Effects:

##### Single exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

##### Prolonged or repeated exposure may cause target organ effects:

Pneumoconiosis: Signs/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. Ocular effects: Signs/symptoms may include blurred or significantly impaired vision. Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

##### 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	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
Styrene	Dermal	Rat	LD50 > 2,000 mg/kg
Styrene	Inhalation-Vapor (4 hours)	Rat	LC50 8.3 mg/l
Styrene	Ingestion	Rat	LD50 5,000 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Inert Filler	Dermal		LD50 estimated to be > 5,000 mg/kg
Inert Filler	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Limestone	Dermal	Rat	LD50 > 2,000 mg/kg
Limestone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Limestone	Ingestion	Rat	LD50 6,450 mg/kg
Magnesium carbonate	Dermal		LD50 estimated to be > 5,000 mg/kg
Magnesium carbonate	Ingestion	Mouse	LD50 > 5,000 mg/kg
Titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Trizinc bis(orthophosphate)	Dermal		LD50 estimated to be > 5,000 mg/kg
Trizinc bis(orthophosphate)	Ingestion	Rat	LD50 > 5,000 mg/kg
Thickening Agent	Dermal		LD50 estimated to be > 5,000 mg/kg
Thickening Agent	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 12.6 mg/l
Thickening Agent	Ingestion	Rat	LD50 > 5,000 mg/kg
Poly(oxypropylene)diamine- (D2000)	Dermal	Rabbit	LD50 2,090 mg/kg
Poly(oxypropylene)diamine- (D2000)	Ingestion	Rat	LD50 475 mg/kg
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Styrene	official classification	Mild irritant
Talc	Rabbit	No significant irritation
Inert Filler	Professional judgement	No significant irritation
Limestone	Rabbit	No significant irritation
Magnesium carbonate	In vitro data	Minimal irritation
Titanium dioxide	Rabbit	No significant irritation
Thickening Agent	Rat	No significant irritation
Poly(oxypropylene)diamine- (D2000)	Rabbit	Corrosive
Quartz	Professional judgement	No significant irritation

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	nal judgement	
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**Serious Eye Damage/Irritation**

Name	Species	Value
Styrene	official classification	Moderate irritant
Talc	Rabbit	No significant irritation
Inert Filler	Professional judgement	No significant irritation
Limestone	Rabbit	No significant irritation
Magnesium carbonate	Rabbit	Mild irritant
Titanium dioxide	Rabbit	No significant irritation
Thickening Agent	Rabbit	No significant irritation
Poly(oxypropylene)diamine- (D2000)	Rabbit	Corrosive

**Skin Sensitisation**

Name	Species	Value
Styrene	Guinea pig	Not classified
Titanium dioxide	Human and animal	Not classified

**Respiratory Sensitisation**

Name	Species	Value
Talc	Human	Not classified

**Germ Cell Mutagenicity**

Name	Route	Value
Styrene	In Vitro	Some positive data exist, but the data are not sufficient for classification
Styrene	In vivo	Some positive data exist, but the data are not sufficient for classification
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Inert Filler	In Vitro	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	In vivo	Not mutagenic
Poly(oxypropylene)diamine- (D2000)	In Vitro	Not mutagenic
Poly(oxypropylene)diamine- (D2000)	In vivo	Not mutagenic
Quartz	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz	In vivo	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Styrene	Ingestion	Mouse	Carcinogenic.
Styrene	Inhalation	Human and animal	Carcinogenic.
Talc	Inhalation	Rat	Some positive data exist, but the data are not

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			sufficient for classification
Inert Filler	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Titanium dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium dioxide	Inhalation	Rat	Carcinogenic.
Quartz	Inhalation	Human and animal	Carcinogenic.

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

Name	Route	Value	Species	Test result	Exposure Duration
Styrene	Ingestion	Not classified for female reproduction	Rat	NOAEL 21 mg/kg/day	3 generation
Styrene	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.1 mg/l	2 generation
Styrene	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.1 mg/l	2 generation
Styrene	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	60 days
Styrene	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during gestation
Styrene	Inhalation	Not classified for development	Multiple animal species	NOAEL 2.1 mg/l	during gestation
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesis
Limestone	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Styrene	Inhalation	auditory system	Causes damage to organs	Multiple animal species	LOAEL 4.3 mg/l	not available
Styrene	Inhalation	liver	Causes damage to organs	Mouse	LOAEL 2.1 mg/l	not available
Styrene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
Styrene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Styrene	Inhalation	endocrine system	Not classified	Rat	NOAEL Not available	not available
Styrene	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2.1 mg/l	not available
Limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Poly(oxypropylene)diamin e- (D2000)	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
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Styrene	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Styrene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Multiple animal species	NOAEL 1.3 mg/l	not available
Styrene	Inhalation	liver	May cause damage to organs though prolonged or repeated exposure	Mouse	LOAEL 0.85 mg/l	13 weeks
Styrene	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	LOAEL 1.1 mg/l	not available
Styrene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.85 mg/l	7 days
Styrene	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.6 mg/l	10 days
Styrene	Inhalation	respiratory system	Not classified	Multiple animal species	LOAEL 0.09 mg/l	not available
Styrene	Inhalation	heart   gastrointestinal tract   bone, teeth, nails, and/or hair   muscles   kidney and/or bladder	Not classified	Multiple animal species	NOAEL 4.3 mg/l	2 years
Styrene	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 500 mg/kg/day	8 weeks
Styrene	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
Styrene	Ingestion	liver   kidney and/or bladder	Not classified	Rat	NOAEL 677 mg/kg/day	6 months
Styrene	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 600 mg/kg/day	470 days
Styrene	Ingestion	heart   respiratory system	Not classified	Rat	NOAEL 35 mg/kg/day	105 weeks
Talc	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis   respiratory system	Not classified	Rat	NOAEL 18 mg/m3	113 weeks
Inert Filler	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

**Aspiration Hazard**

Name	Value
Poly(oxypropylene)diamine- (D2000)	Some positive data exist, but the data are not sufficient for classification

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**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.

#### 9.1B Aquatic toxicity

### Ecotoxic to terrestrial vertebrates

#### 9.3B Terrestrial vertebrate toxicity

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Thickening Agent	Trade Secret	Zebra Fish	Estimated	96 hours	LC50	>100 mg/l
Thickening Agent	Trade Secret	Green algae	Estimated	72 hours	EC50	>100 mg/l
Thickening Agent	Trade Secret	Water flea	Estimated	48 hours	EC50	>100 mg/l
Poly(oxypropylene)diamine-(D2000)	9046-10-0		Data not available or insufficient for classification			
Styrene	100-42-5	Water flea	Experimental	48 hours	EC50	4.7 mg/l
Styrene	100-42-5	Fathead minnow	Experimental	96 hours	LC50	4.02 mg/l
Styrene	100-42-5	Green Algae	Experimental	72 hours	EC50	4.9 mg/l
Styrene	100-42-5	Green algae	Experimental	96 hours	Effect Concentration 10%	0.28 mg/l
Styrene	100-42-5	Water flea	Experimental	21 days	NOEC	1.01 mg/l
Talc	14807-96-6		Data not available or insufficient for classification			
Inert Filler	Trade Secret	Water flea	Experimental	72 hours	EC50	>1,000 mg/l
Inert Filler	Trade Secret	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Inert Filler	Trade Secret	Zebra Fish	Experimental	96 hours	LC50	>1,000 mg/l
Inert Filler	Trade Secret	Green algae	Experimental	72 hours	NOEC	>=1,000 mg/l
Magnesium carbonate	546-93-0	Water flea	Estimated	48 hours	LC50	486 mg/l
Magnesium carbonate	546-93-0	Fathead minnow	Estimated	96 hours	LC50	1,880 mg/l
Magnesium carbonate	546-93-0	Green algae	Estimated	72 hours	EC50	>100 mg/l
Magnesium carbonate	546-93-0	Green algae	Estimated	72 hours	NOEC	100 mg/l
Magnesium carbonate	546-93-0	Water flea	Estimated	21 days	Effect Concentration 10%	284 mg/l
Limestone	1317-65-3	Western Mosquitofish	Experimental	96 hours	LC50	>100 mg/l
Limestone	1317-65-3	Rainbow trout	Experimental	42 days	NOEC	>100 mg/l
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l

dioxide						
Titanium dioxide	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
Titanium dioxide	13463-67-7	Fathead minnow	Experimental	96 hours	LC50	>100 mg/l
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
Trizinc bis(orthophosphate)	7779-90-0	Rainbow trout	Experimental	96 hours	LC50	0.18 mg/l
Quartz	14808-60-7		Data not available or insufficient for classification			

## 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Thickening Agent	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(oxypropylene)diamine-(D2000)	9046-10-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Styrene	100-42-5	Experimental Biodegradation	28 days	BOD	70.9 % BOD/ThBOD	Other methods
Styrene	100-42-5	Experimental Photolysis		Photolytic half-life (in air)	6.64 hours (t <sub>1/2</sub> )	Other methods
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inert Filler	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Magnesium carbonate	546-93-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Limestone	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Trizinc bis(orthophosphate)	7779-90-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A



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Quartz	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
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**12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Thickening Agent	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Poly(oxypropylene)diamine-(D2000)	9046-10-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Styrene	100-42-5	Experimental Bioconcentration		Log Kow	2.96	Other methods
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Inert Filler	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Magnesium carbonate	546-93-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Limestone	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulation factor	9.6	Other methods
Trizinc bis(orthophosphate)	7779-90-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Quartz	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**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**

See Section 11.1 Information on toxicological effects

Incinerate uncured product in a permitted waste incineration facility. As a disposal alternative, Dispose of waste product in a permitted industrial waste facility. 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.:** UN1866

**Proper Shipping Name:** RESIN SOLUTION

**Class/Division:** 3

**Sub Risk:** Not applicable.

**Packing Group:** III

**Special Instructions:** Limited quantity may apply

**Hazchem Code:** -3Y

**IERG:** 14

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** UN1866

**Proper Shipping Name:** RESIN SOLUTION

**Class/Division:** 3

**Sub Risk:** Not applicable.

**Packing Group:** III

**International Maritime Dangerous Goods Code (IMDG) - Marine Transport**

**UN No.:** UN1866

**Proper Shipping Name:** RESIN SOLUTION

**Class/Division:** 3

**Sub Risk:** Not applicable.

**Packing Group:** III

**Marine Pollutant:** Not applicable.

**Special Instructions:** Limited quantity may apply

**SECTION 15: Regulatory information**

**HSNO Approval number** HSR002669

**Group standard name** Surface Coatings and Colourants (Flammable, Toxic [6.7]) Group Standard 2006

**HSNO Hazard classification** Refer to Section 2: Hazard identification

**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** Class 6, required when present in quantities greater than 10 L (HSNO 6.7A substance).

**Location and transit Depot certification test** 500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and including 5 L) 250 L (open containers)

Hazardous atmosphere zone	100 L (closed containers) 25 L (decanting) 5 L (open occasionally) 1 L (open containers in continuous use)
Fire extinguishers	Two required for 500 L
Emergency response plan	100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)
Secondary containment	100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)
Tracking	Not required
Warning signage	100 L (for a HSNO 9.1A substance) or 1,000 L (for all other substances)

## **SECTION 16: Other information**

### **Revision information:**

No revision information is available.

Section 1: Product identification numbers information was deleted.

Section 1: Product name information was modified.

Section 1: Product use information information was deleted.

US Section 01 Product Use - Recommended Use information was added.

Section 2: Classification statements information was modified.

Section 2: NZ 6.9B Repeated Target Organ Hazard Statements information was modified.

Section 2: NZ Classification statements (Transportation) information was modified.

HSNO Classification. information was modified.

Environmental Hazard Statements information was modified.

Section 2: NZ Health Hazard Statements information was modified.

Section 2: NZ Pictograms information was modified.

Section 2: NZ Precautionary Statements - General information was modified.

Section 2: NZ Precautionary Statements - Prevention information was modified.

Section 2: NZ Precautionary Statements - Response information was modified.

Section 2: NZ Precautionary Statements - Storage information was modified.

Section 2: NZ Symbols information was modified.

Section 2: Ingredient table information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

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

Section 5: Hazchem code information was deleted.

Section 6: Accidental release clean-up information information was modified.

Section 6: Accidental release personal information information was modified.

Section 7: Conditions safe storage information was modified.

Section 7: Precautions safe handling information information was modified.

Section 7: Refer to Section 15 - HSNO control statement information was modified.

Section 8: Eye/face protection information information was modified.

Section 8: Eye/face protection text information was deleted.

Section 8: Occupational exposure limit table information was added.

Section 8: Occupational exposure limit table information was modified.

OEL Reg Agency Desc information was modified.

Section 8: Personal Protection - Eye information information was modified.

Section 8: Personal Protection - Respiratory Information information was added.

Section 8: Personal Protection - Skin/hand information information was modified.

Section 8: Respiratory protection - recommended respirators information was deleted.

Section 8: Skin protection - recommended gloves information information was modified.

Section 09: Boiling point/Initial boiling point/Boiling range information was added.

Section 09: Decomposition Temperature information was added.

Section 09: Melting point/Freezing point information was added.

Section 9: All Properties information was added.

Section 9: Boiling point information information was deleted.

Section 9: Explosive properties information information was deleted.

Section 9: Flammability (solid, gas) information information was added.

Section 9: Flammability (solid, gas) information information was deleted.

Section 9: Melting point information information was deleted.

Section 9: Odour Threshold information was added.

Section 9: Oxidising properties information information was deleted.

Section 9: Property description for optional properties information was modified.

Section 9: Property description for required properties information was deleted.

Section 9: Solubility (non-water) information was added.

Section 9: Viscosity information information was modified.

Section 10: Hazardous decomposition products during combustion text information was added.

Section 11: Acute Toxicity table information was modified.

Section 11: Aspiration Hazard Table information was modified.

Section 11: Carcinogenicity Table information was modified.

Section 11: Disclosed components not in tables text information was added.

Section 11: Germ Cell Mutagenicity Table information was modified.

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

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

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

Section 11: Health Effects - Other information information was deleted.

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

Section 11: Prolonged or repeated exposure may cause standard phrases information was added.

Section 11: Reproductive and/or Developmental Effects text information was added.

Section 11: Reproductive Toxicity Table information was modified.

Section 11: Respiratory Sensitization Table information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Single exposure may cause standard phrases information was added.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Skin Sensitization Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Ecotoxic to terrestrial vertebrates information was added.

Prints No Data if Biocumulative potential information is not present information was deleted.

Prints No Data if Persistence and Degradability information is not present information was deleted.

Section 12: NZ Environmental terrestrial vertebrate information was added.

Section 12: Persistence and Degradability information information was added.

Section 12: Biocumulative potential information information was added.

Section 13: 13.1. Waste disposal note information was modified.

Section 13: Standard Phrase Category Waste GHS information was modified.

Section 14: Class/Div Group 2 information was added.

Section 14: IERG Group 1 information was added.

Section 14: IERG Group 2 information was added.

Section 14: Marine Pollutant Technical Name information was added.

Section 14: Packing Group Group 1 information was added.

Section 14: Packing Group Group 2 information was added.

Section 14: Special Instructions ADG Group 1 information was added.

Section 14: Special Instructions Group 2 information was added.

Section 14: Special Instructions IATA Group 1 information was added.

Section 14: Special Instructions IATA Group 2 information was added.

Section 14: Special Instructions IMDG Group 1 information was added.

Section 14: Special Instructions IMDG Group 2 information was added.

Section 14: Transport Class/Div Group 1 information was added.

Section 14: Transportation information information was deleted.

Section 14: Transportation Sub Risk Group 1 information was added.

Section 14: Transportation Sub Risk Group 2 information was added.

Section 14: UN Number IATA Group 1 information was added.

Section 14: UN Number IATA Group 2 information was added.

Section 14: UN Number information was added.

Section 14: UN Proper Shipping Name Group 1 information was added.

Section 14: UN Proper Shipping Name Group 2 information was added.

Section 14: UN Proper Shipping Name IATA Group 1 information was added.

Section 14: UN Proper Shipping Name IATA Group 2 information was added.

Section 15: NZ Inventories information information was added.

Section 16: NZ reason for reissue information was added.

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<b>Issue Date:</b>	16/11/2017	<b>Supersedes date:</b>	17/01/2016

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

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Cream Hardener (Red, White & Blue)

#### Product Identification Numbers

60-4550-6617-9      60-4550-6982-7      60-4550-8123-6

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

##### Recommended use

Automotive., Hardener for body fillers and glazes

#### 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 as amended.

Classified as a Dangerous Good according to; New Zealand, Land Transport Rule: Dangerous Goods 2005 (Rule 45001/1) as amended, NZS 5433:2012 Transport of Dangerous Goods on Land, UN Model Regulations on the Transport of Dangerous Goods, International Maritime Dangerous Goods Code and IATA Dangerous Goods Regulations.

#### HSNO classification

5.2E Organic peroxide: Type E

6.1E Acute toxicity

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6.4A Irritating to the eye

6.5B Skin sensitiser

9.1A Aquatic toxicity

### 2.2. Label elements

#### SIGNAL WORD

WARNING!

#### Symbols:

Flame | Exclamation mark | Environment |

#### Pictograms



#### HAZARD STATEMENTS:

H242	Heating may cause a fire.
H313	May be harmful in contact with skin.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

##### Prevention:

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P234	Keep only in original container.
P280B	Wear protective gloves and eye/face protection.
P273	Avoid release to the environment.

##### Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.

##### Storage:

P411 + P235A	Store at temperatures not exceeding 32C. Keep cool.
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##### Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.
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## SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Dibenzoyl peroxide	94-36-0	30 - 60
Water	7732-18-5	10 - 30
Benzoic Acid, C9-11-Branched Alkyl Esters	131298-44-7	10 - 30
Zinc Stearate	557-05-1	3 - 7

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Oxirane, Polymer With Methyloxirane, Monobutyl Ether	9038-95-3	1 - 5
Calcium Sulfate	7778-18-9	1 - 5
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	1 - 5
Ferric Ferrocyanide	14038-43-8	0 - 1
Ferric Ammonium Ferrocyanide	25869-00-5	0 - 1

**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**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

**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 fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode. Part of the oxygen for combustion is supplied by the peroxide itself.

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

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**5.4. Hazchem code:** 1W**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Eliminate all ignition sources if safe to do so. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to



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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 using non-sparking tools. 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: HSNO Controls for more information.

### 7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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

Keep container tightly closed. Protect from sunlight. Store away from heat. Store at temperatures not exceeding 32C. Keep cool. Keep only in original container. Store away from other materials. Keep/store away from clothing and other combustible materials.

### 7.3. Approved handler test certificate

Class 5, required when present in quantities greater than 10 L or 10 kg (HSNO 5.2E substance)

## 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
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	ACGIH	TWA(respirable fraction):5 mg/m <sup>3</sup>	A4: Not class. as human carcinogen
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	New Zealand WES	TWA(as Fe, dust and fume)(8 hours):5 mg/m <sup>3</sup>	
Calcium Sulfate	7778-18-9	ACGIH	TWA(inhalable fraction):10 mg/m <sup>3</sup>	
Calcium Sulfate	7778-18-9	New Zealand WES	TWA(8 hours):10 mg/m <sup>3</sup>	
Dibenzoyl peroxide	94-36-0	New Zealand WES	TWA(8 hours):5 mg/m <sup>3</sup>	
Dibenzoyl peroxide	94-36-0	ACGIH	TWA:5 mg/m <sup>3</sup>	A4: Not class. as human carcinogen

## **3M™ Cream Hardener (Red, White & Blue)**

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

CELL: Ceiling

### **8.2. Exposure controls**

#### **8.2.1. Engineering controls**

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

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

##### **Eye/face protection**

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

Indirect vented goggles.

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: Nitrile rubber.

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 – Nitrile

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 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**

## 3M™ Cream Hardener (Red, White & Blue)

Physical state	Solid.
Specific Physical Form:	Viscous.
Appearance/Odour	Red paste with slight ester odour
Odour threshold	<i>No data available.</i>
pH	<i>No data available.</i>
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	<i>No data available.</i>
Flash point	111 °C [ <i>Test Method</i> :Estimated]
Evaporation rate	<i>No data available.</i>
Flammability (solid, gas)	Organic Peroxide: Type E.
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Vapour density	<i>Not applicable.</i>
Density	1.2 g/cm <sup>3</sup>
Relative density	1.2 [ @ 25 °C ] [ <i>Ref Std</i> :WATER=1]
Water solubility	Negligible
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	<i>No data available.</i>
Molecular weight	<i>Not applicable.</i>
Volatile organic compounds (VOC)	0 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]
Volatile organic compounds (VOC)	0 % weight [ <i>Test Method</i> :calculated per CARB title 2]
Percent volatile	20 % [ <i>Details</i> :Water is the volatile component]
VOC less H <sub>2</sub> O & exempt solvents	0 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable. Stable unless exposed to heat, flames and drying conditions.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

### 10.4 Conditions to avoid

Heat.

### 10.5 Incompatible materials

Accelerators

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide.	Not specified.
Carbon dioxide.	Not specified.
Toxic vapour, gas, particulate.	Not specified.

## SECTION 11: Toxicological information

## 3M™ Cream Hardener (Red, White & Blue)

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

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

##### Skin contact

May be harmful in contact with skin.

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

##### Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### 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	Dermal		No data available; calculated ATE 2,000 - 5,000 mg/kg
Overall product	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Dibenzoyl peroxide	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Dibenzoyl peroxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 24.3 mg/l
Dibenzoyl peroxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Benzoic Acid, C9-11-Branched Alkyl Esters	Dermal	Rabbit	LD50 > 2,000 mg/kg
Benzoic Acid, C9-11-Branched Alkyl Esters	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5 mg/l
Benzoic Acid, C9-11-Branched Alkyl Esters	Ingestion	Rat	LD50 > 5,000 mg/kg
Zinc Stearate	Dermal	Rabbit	LD50 > 2,000 mg/kg
Zinc Stearate	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 50 mg/l
Zinc Stearate	Ingestion	Rat	LD50 > 5,000 mg/kg
Calcium Sulfate	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Dermal	Rabbit	LD50 > 16,960 mg/kg
Calcium Sulfate	Ingestion	Rat	LD50 > 5,000 mg/kg

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Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5 mg/l
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Ingestion	Rat	LD50 4,240 mg/kg
Iron oxide (Fe2O3)	Dermal	Not available	LD50 3,100 mg/kg
Iron oxide (Fe2O3)	Ingestion	Not available	LD50 3,700 mg/kg
Ferric Ammonium Ferrocyanide	Dermal		LD50 estimated to be > 5,000 mg/kg
Ferric Ferrocyanide	Dermal		LD50 estimated to be > 5,000 mg/kg
Ferric Ammonium Ferrocyanide	Ingestion	Rat	LD50 > 5,110 mg/kg
Ferric Ferrocyanide	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Dibenzoyl peroxide	Rabbit	Minimal irritation
Zinc Stearate	Rabbit	No significant irritation
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Rabbit	Minimal irritation
Iron oxide (Fe2O3)	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
Dibenzoyl peroxide	Rabbit	Severe irritant
Zinc Stearate	Rabbit	No significant irritation
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Rabbit	No significant irritation
Iron oxide (Fe2O3)	Rabbit	No significant irritation

**Skin Sensitisation**

Name	Species	Value
Dibenzoyl peroxide	Guinea pig	Sensitising
Iron oxide (Fe2O3)	Human	Not classified

**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
Dibenzoyl peroxide	In Vitro	Not mutagenic
Dibenzoyl peroxide	In vivo	Not mutagenic
Iron oxide (Fe2O3)	In Vitro	Not mutagenic

**Carcinogenicity**

Name	Route	Species	Value
Dibenzoyl peroxide	Ingestion	Multiple animal species	Not carcinogenic
Dibenzoyl peroxide	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Ingestion	Rat	Not carcinogenic
Iron oxide (Fe2O3)	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification

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

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Name	Route	Value	Species	Test result	Exposure Duration
Dibenzoyl peroxide	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
Dibenzoyl peroxide	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	premating & during gestation
Dibenzoyl peroxide	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating & during gestation
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Inhalation	Not classified for male reproduction	Rat	NOAEL 1 mg/l	2 weeks

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Ingestion	nervous system	Not classified	Rat	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Inhalation	endocrine system   hematopoietic system   liver   nervous system	Not classified	Rat	NOAEL 1 mg/l	2 weeks
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.005 mg/l	2 weeks
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Inhalation	respiratory system	Not classified	Rat	LOAEL 0.001 mg/l	2 weeks
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Inhalation	heart	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Ingestion	liver   kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 145 mg/kg/day	90 days
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	2 years
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	Ingestion	heart   endocrine system   respiratory system	Not classified	Rat	NOAEL 3,770 mg/kg/day	90 days
Iron oxide (Fe <sub>2</sub> O <sub>3</sub> )	Inhalation	pulmonary fibrosis   pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure

**Aspiration Hazard**

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**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

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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.

##### 9.1A Aquatic toxicity

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Dibenzoyl peroxide	94-36-0	Rainbow trout	Experimental	96 hours	LC50	0.06 mg/l
Dibenzoyl peroxide	94-36-0	Water flea	Experimental	48 hours	EC50	0.11 mg/l
Dibenzoyl peroxide	94-36-0	Green Algae	Experimental	72 hours	EC50	0.071 mg/l
Dibenzoyl peroxide	94-36-0	Water flea	Experimental	21 hours	Effect Concentration 10%	0.001 mg/l
Dibenzoyl peroxide	94-36-0	Green Algae	Experimental	72 hours	NOEC	0.02 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7		Data not available or insufficient for classification			
Zinc Stearate	557-05-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	9038-95-3	Inland Silverside	Analogous Compound	96 hours	LC50	650 mg/l
Calcium Sulfate	7778-18-9	Water flea	Experimental	48 hours	LC50	>1,970 mg/l
Calcium Sulfate	7778-18-9	Bluegill	Experimental	96 hours	LC50	>2,980 mg/l
Calcium Sulfate	7778-18-9	Algae or other aquatic plants	Experimental	96 hours	EC50	3,200 mg/l
Calcium Sulfate	7778-18-9	Water flea	Estimated	21 days	NOEC	1,270 mg/l
Iron oxide (Fe2O3)	1309-37-1	Golden Orfe	Experimental	48 hours	LC50	>1,000 mg/l
Ferric Ferrocyanide	14038-43-8	Golden Orfe	Estimated	96 hours	LC50	>100 mg/l
Ferric Ammonium Ferrocyanide	25869-00-5	Common Carp	Experimental	96 hours	LC50	>100 mg/l
Ferric Ammonium Ferrocyanide	25869-00-5	Green Algae	Experimental	72 hours	EC50	9.7 mg/l
Ferric Ammonium Ferrocyanide	25869-00-5	Water flea	Endpoint not reached	24 hours	EC50	>100 mg/l
Ferric Ammonium Ferrocyanide	25869-00-5	Green Algae	Experimental	72 hours	NOEC	8 mg/l
Ferric	25869-00-5	Water flea	Experimental	21 days	Effect	0.168 mg/l

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Ammonium Ferrocyanide					Concentration 10%	
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**12.2. Persistence and degradability**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Dibenzoyl peroxide	94-36-0	Experimental Biodegradation	28 days	BOD	71 % weight	OECD 301D - Closed bottle test
Dibenzoyl peroxide	94-36-0	Experimental Hydrolysis		Hydrolytic half-life	<24 hours (t 1/2)	Other methods
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Zinc Stearate	557-05-1	Experimental Biodegradation	28 days	BOD	5 % BOD/ThBOD	OECD 301D - Closed bottle test
Oxirane, Polymer With Methyloxirane, Monobutyl Ether	9038-95-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Calcium Sulfate	7778-18-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Iron oxide (Fe2O3)	1309-37-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ferric Ferrocyanide	14038-43-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ferric Ammonium Ferrocyanide	25869-00-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Dibenzoyl peroxide	94-36-0	Experimental Bioconcentration		Log Kow	3.2	Other methods
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Zinc Stearate	557-05-1	Experimental Bioconcentration		Log Kow	1.2	Other methods
Oxirane, Polymer With Methyloxirane, Monobutyl	9038-95-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A



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Ether						
Calcium Sulfate	7778-18-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Iron oxide (Fe2O3)	1309-37-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ferric Ferrocyanide	14038-43-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Ferric Ammonium Ferrocyanide	25869-00-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**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**

See Section 11.1 Information on toxicological effects

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

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.:** UN3108

**Proper Shipping Name:** ORGANIC PEROXIDE TYPE E, SOLID , ( Dibenzoyl Peroxide (as a paste) )

**Class/Division:** 5.2

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** 1W

**IERG:** 32

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** UN3108

**Proper Shipping Name:** ORGANIC PEROXIDE TYPE E, SOLID , ( Dibenzoyl Peroxide (as a paste) )

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**Class/Division:** 5.2

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

### International Maritime Dangerous Goods Code (IMDG) - Marine Transport

**UN No.:** UN3108

**Proper Shipping Name:** ORGANIC PEROXIDE TYPE E, SOLID , ( Dibenzoyl Peroxide (as a paste) )

**Class/Division:** 5.2

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

HSNO Approval number	HSR002629
Group standard name	Organic Peroxides Group Standard 2006
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.

### HSNO Controls

Approved handler test certificate	Class 5, required when present in quantities greater than 10 L or 10 kg (HSNO 5.2E substance)
Location and transit Depot certification test	25 kg
Hazardous atmosphere zone	Not required
Fire extinguishers	One required for 50 L or 50 kg
Emergency response plan	100 L or 100 kg
Secondary containment	100 L or 100 kg
Tracking	Not required
Warning signage	10 L or 10 kg

## SECTION 16: Other information

### Revision information:

No revision information is available.

Section 1: Product identification numbers information was added.

US Section 01 Product Use - Recommended Use information was added.

Section 2: NZ Classification statements (Transportation) information was modified.

Environmental Hazard Statements information was modified.

Section 2: NZ Health Hazard Statements information was modified.

Section 2: NZ Precautionary Statements - Prevention information was modified.

Section 2: NZ Precautionary Statements - Response information was modified.

Section 2: Ingredient table information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

Section 6: Accidental release clean-up information information was modified.

Section 7: Precautions safe handling information information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 8: Personal Protection - Skin/hand information information was modified.

Section 8: Skin protection - protective clothing information information was modified.

Section 8: Skin protection - recommended gloves information information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Carcinogenicity Table information was modified.

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Section 11: Health Effects - Inhalation information information was modified.  
Section 11: Health Effects - Skin information information was modified.  
Section 11: Reproductive Toxicity Table information was modified.  
Section 11: Serious Eye Damage/Irritation Table information was modified.  
Section 11: Skin Corrosion/Irritation Table information was modified.  
Section 11: Skin Sensitization Table information was modified.  
Section 11: Target Organs - Repeated Table information was modified.  
Section 11: Target Organs - Single Table information was modified.  
Section 12: Component ecotoxicity information information was modified.  
Section 12: Persistence and Degradability information information was modified.  
Section 12: Biocumulative potential information information was modified.  
Section 13: Standard Phrase Category Waste GHS information was modified.  
Section 14: IERG Group 1 information was modified.  
Section 14: Proper Shipping Name Technical Name Group 1 information was added.  
Section 14: Special Instructions ADG Group 1 information was added.  
Section 14: Special Instructions ADG Group 1 information was deleted.  
Section 14: Special Instructions Group 2 information was added.  
Section 14: Special Instructions Group 2 information was deleted.  
Section 14: Special Instructions IATA Group 1 information was added.  
Section 14: Special Instructions IATA Group 1 information was deleted.  
Section 14: Special Instructions IATA Group 2 information was added.  
Section 14: Special Instructions IATA Group 2 information was deleted.  
Section 14: Special Instructions IMDG Group 1 information was added.  
Section 14: Special Instructions IMDG Group 1 information was deleted.  
Section 14: Special Instructions IMDG Group 2 information was added.  
Section 14: Special Instructions IMDG Group 2 information was deleted.  
Section 14: Transport Class/Div Group 1 information was modified.  
Section 14: Transport Information information was added.  
Section 14: UN Number IATA Group 1 information was modified.  
Section 14: UN Number information was modified.  
Section 14: UN Proper Shipping Name Group 1 information was modified.  
Section 14: UN Proper Shipping Name IATA Group 1 information was modified.  
Section 15: NZ Inventories information information was added.  
Section 16: NZ reason for reissue information was added.

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