

Safety Data Sheet

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 29/11/2023
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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

IDENTIFICATION:

1.1. Product identifier

3M[™] Quick Grip Filler PNs 33181, 33185

Product Identification Numbers

60-4550-7202-9 60-4550-7206-0

1.2. Recommended use and restrictions on use

Recommended use

Automotive. Body Filler

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:

32-5008-1, 29-5993-0

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

TRANSPORT INFORMATION

The Dangerous Goods Classification for the complete Kit is provided below.

UN No.: UN3269

Proper shipping name: POLYESTER RESIN KIT

Class/Division: 3

3MTM Quick Grip Filler PNs 33177, 33179, 33181, 33183, 33185

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:

Complete document review.

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Safety Data Sheet

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 14/06/2020

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

SECTION 1: Identification

1.1. Product identifier

3MTM Quick Grip Filler PNs 33177, 33179, 33181, 33183, 33185

1.2. Recommended use and restrictions on use

Recommended use

Automotive.

For Industrial or Professional use only

1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

Telephone: (09) 477 4040

E Mail: innovation@nz.mmm.com

Website: 3m.co.nz

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

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

2.1. Classification of the substance or mixture

Flammable Liquids: Category 3 Eye irritation: Category 2 Carcinogenicity: Category 1

Specific target organ toxicity – single exposure: Category 1 Specific target organ toxicity – repeated exposure: Category 1 Hazardous to the aquatic environment chronic: Category 3

2.2. Label elements SIGNAL WORD

Danger

Symbols:

Flame | Exclamation mark | Health Hazard |

Pictograms







HAZARD STATEMENTS:

H226 Flammable liquid and vapour.

H319 Causes serious eye 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.

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical, ventilating and lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280K Wear protective gloves and respiratory protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water or shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P337 + P313 IF eye irritation persists: Get medical advice/attention.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

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3M[™] Quick Grip Filler PNs 33177, 33179, 33181, 33183, 33185

chemical or carbon dioxide to extinguish.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	% by Weight
Talc	14807-96-6	5 - 30
Polyester Polymer	Trade Secret	5 - 30
Resin Polymer	Trade Secret	5 - 30
Styrene	100-42-5	< 20
Inert Filler	Trade Secret	1 - 15
Limestone	1317-65-3	1 - 15
Magnesium Carbonate	546-93-0	1 - 15
Silica gel	112926-00-8	< 5
Chlorite-group minerals	1318-59-8	< 5
Dolomite	16389-88-1	< 5
Quartz	14808-60-7	< 1
Titanium dioxide	13463-67-7	< 1
Ethylbenzene	100-41-4	< 0.5
Cobalt bis(2-ethylhexanoate)	136-52-7	< 0.1
1,4-Naphthoquinone	130-15-4	< 0.05

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

The most important symptoms and effects based on the CLP classification include:

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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

SubstanceConditionCarbon monoxide.During combustion.Carbon dioxide.During combustion.Irritant vapours or gases.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

Cover spill area with a fire extinguishing foam that is resistant to polar solvents. 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 - 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. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component

for the component.				
Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal carcin., Ototoxicant
Ethylbenzene	100-41-4	New Zealand WES	TWA(8 hours):88 mg/m3(20 ppm);STEL(15 minutes):176 mg/m3(40 ppm)	Skin
Styrene	100-42-5	ACGIH	TWA:10 ppm;STEL:20 ppm	A3: Confirmed animal carcin., Ototoxicant
Styrene	100-42-5	New Zealand WES	TWA(8 hours):85 mg/m3(20 ppm);STEL(15 minutes):170 mg/m3(40 ppm)	Suspected human carcinogen.
Silica gel	112926-00-8	New Zealand WES	TWA(8 hours):10 mg/m3	
Limestone	1317-65-3	New Zealand WES	TWA(8 hours):10 ppm	
Titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcinogen.
Titanium dioxide	13463-67-7	New Zealand WES	TWA(8 hours):10 mg/m3	
Talc	14807-96-6	ACGIH	TWA(respirable fraction):2 mg/m3	A4: Not class. as human carcinogin
Talc	14807-96-6	New Zealand WES	Limit value not established:	C
Talc	14807-96-6	New Zealand WES	TWA(as respirable dust)(8 hours):2 mg/m3	
Quartz	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Silica, crystalline (airborne particles of respirable size)	14808-60-7	New Zealand WES	TWA(as respirable dust)(8 hours):0.05 mg/m3	Carcinogenicity Category 1, carc HCA,

Confirmed human carcinogen

Dust, inert or nuisance 16389-88-1 New Zealand TWA(as respirable dust)(8

WES hours):3 mg/m3;TWA(as

inhalable dust)(8 hours):10

TWA(8 hours):10 mg/m3

mg/m3

Magnesium Carbonate 546-93-0 New Zealand

WES

determined

Inert Filler Trade Secret Manufacturer

TWA(as non-fibrous, respirable)(8 hours):3

mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10

mg/m3

Inert Filler TWA(as fiber):1 fiber/cc Trade Secret ACGIH A3: Confirmed animal

carcinogen.

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:

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

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: Fluoroelastomer

Polyvinyl alcohol (PVA).

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
Colour	Grey
Odour	Pungent Styrene
Odour threshold	0.32 ppm
рН	No data available.
Melting point/Freezing point	No data available.
Boiling point/Initial boiling point/Boiling range	145 °C [Details: Styrene]
Flash point	31.7 °C [Test Method:Closed Cup] [Details:Styrene]
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	0.9 % [Details: Based on styrene]
Flammable Limits(UEL)	6.8 % [Details: Based on styrene]
Vapour pressure	No data available.
Vapor Density and/or Relative Vapor Density	No data available.
Density	1.105 g/ml
Density	1.1 kg/l
Relative density	1.105 [<i>Ref Std</i> :WATER=1]
Water solubility	No data available.
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity/Kinematic Viscosity	148,000 mPa-s
Volatile organic compounds (VOC)	16.72 - 18.64 % weight [Test Method:calculated per CARB title
	[2]
Volatile organic compounds (VOC)	187.6 - 209.14 g/l [Test Method:calculated SCAQMD rule 443.1]
Percent volatile	16.29 % weight
VOC less H2O & exempt solvents	187.69 - 209.25 g/l [Test Method:calculated SCAQMD rule
	443.1]
Molecular weight	No data available.

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.

10.3 Possibility of hazardous reactions

3MTM Quick Grip Filler PNs 33177, 33179, 33181, 33183, 33185

Hazardous polymerisation may occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

Strong bases.

10.6 Hazardous decomposition products

Substance

Condition

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not 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. May cause additional health effects (see below).

Skin contact

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

Eve contact

Moderate eye irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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.

Prolonged or repeated exposure may cause target organ effects:

Pneumoconiosis: Sign/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 ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Tale	Ingestion		LD50 estimated to be > 5,000 mg/kg
Styrene	Dermal	Rat	LD50 > 2,000 mg/kg
Styrene	Inhalation- Vapor (4 hours)	Rat	LC50 11.8 mg/I
Styrene	Ingestion	Rat	LD50 5,000 mg/kg
Polyester Polymer	Dermal		LD50 estimated to be > 5,000 mg/kg
Polyester Polymer	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Magnesium Carbonate	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
Magnesium Carbonate	Ingestion	Rat	LD50 > 2,000 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
Chlorite-group minerals	Dermal		LD50 estimated to be > 5,000 mg/kg
Chlorite-group minerals	Ingestion		LD50 estimated to be > 5,000 mg/kg
Dolomite	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Dolomite	Ingestion	Rat	LD50 > 2,000 mg/kg
Silica gel	Dermal	Rabbit	LD50 > 5,000 mg/kg
Silica gel	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Silica gel	Ingestion	Rat	LD50 > 5,110 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
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation- Vapor (4 hours)	Rat	LC50 17.4 mg/l

Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
Cobalt bis(2-ethylhexanoate)	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Cobalt bis(2-ethylhexanoate)	Ingestion	Rat	LD50 3,129 mg/kg
1,4-Naphthoquinone	Inhalation-	Rat	LC50 0.046 mg/l
	Dust/Mist		
	(4 hours)		
1,4-Naphthoquinone	Ingestion	Rat	LD50 124 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Styrene	Professio	Mild irritant
	nal	
	judgemen	
	t	
Magnesium Carbonate	In vitro	No significant irritation
	data	
Inert Filler	Professio	No significant irritation
	nal	
	judgemen	
	t	
Limestone	Rabbit	No significant irritation
Chlorite-group minerals	Professio	No significant irritation
	nal	
	judgemen	
	t	
Dolomite	Professio	No significant irritation
	nal	
	judgemen	
	t	
Silica gel	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
Quartz	Professio	No significant irritation
	nal	
	judgemen	
	t	
Ethylbenzene	Rabbit	Mild irritant
Cobalt bis(2-ethylhexanoate)	In vitro	No significant irritation
	data	
1,4-Naphthoquinone	Rabbit	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Talc	Rabbit	No significant irritation
Styrene	Professio	Moderate irritant
	nal	
	judgemen	
	t	
Magnesium Carbonate	Rabbit	Mild irritant
Inert Filler	Professio	No significant irritation
	nal	
	judgemen	
	t	
Limestone	Rabbit	No significant irritation
Chlorite-group minerals	Professio	No significant irritation
	nal	
	judgemen	
	t	
Dolomite	Professio	No significant irritation
	nal	
	judgemen	
	t	

Silica gel	Rabbit	No significant irritation
Titanium dioxide	Rabbit	No significant irritation
Ethylbenzene	Rabbit	Moderate irritant
Cobalt bis(2-ethylhexanoate)	Rabbit	Severe irritant
1,4-Naphthoquinone	similar	Corrosive
	health	
	hazards	

Sensitisation:

Skin Sensitisation

Name	Species	Value
Styrene	Guinea pig	Not classified
Silica gel	Human and animal	Not classified
Titanium dioxide	Human and animal	Not classified
Ethylbenzene	Human	Not classified
Cobalt bis(2-ethylhexanoate)	similar compoun ds	Sensitising
1,4-Naphthoquinone	Guinea pig	Sensitising

Respiratory Sensitisation

respiratory sensitisation		
Name	Species	Value
Talc	Human	Not classified
Cobalt bis(2-ethylhexanoate)	similar	Sensitising
	compoun	
	ds	

Germ Cell Mutagenicity

Name	Route	Value
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
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
Inert Filler	In Vitro	Some positive data exist, but the data are not sufficient for classification
Silica gel	In Vitro	Not mutagenic
Titanium dioxide	In Vitro	Not mutagenic
Titanium dioxide	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
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,4-Naphthoquinone	In vivo	Not mutagenic
1,4-Naphthoquinone	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

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Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Styrene	Ingestion	Mouse	Carcinogenic.
Styrene	Inhalation	Human and animal	Carcinogenic.
Inert Filler	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Silica gel	Not specified.	Mouse	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.
Ethylbenzene	Inhalation	Multiple animal species	Carcinogenic.
Cobalt bis(2-ethylhexanoate)	Inhalation	similar compoun ds	Carcinogenic.

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route Value		Species	Test result	Exposure Duration
Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesis
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
Limestone	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
Silica gel	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Silica gel	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Silica gel	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation
Cobalt bis(2-ethylhexanoate)	Ingestion	Toxic to development	similar compoun ds	NOAEL Not available	
Cobalt bis(2-ethylhexanoate)	Ingestion	Toxic to male reproduction	similar compoun ds	NOAEL Not available	
Cobalt bis(2-ethylhexanoate)	Inhalation	Toxic to male reproduction	similar compoun ds	NOAEL Not available	

1,4-Naphthoquinone	Ingestion	Not classified for female reproduction	Rat	NOAEL 2	premating
				mg/kg/day	into lactation
1,4-Naphthoquinone	Ingestion	Not classified for male reproduction	Rat	NOAEL 2	42 days
				mg/kg/day	
1,4-Naphthoquinone	Ingestion	Not classified for development	Rat	NOAEL 2	premating &
		-		mg/kg/day	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	May cause respiratory irritation	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
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Ethylbenzene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Cobalt bis(2- ethylhexanoate)	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
1,4-Naphthoquinone	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
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
Styrene	Inhalation	auditory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL not available	occupational exposure
Styrene	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
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	10 days

					mg/l	
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
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
Silica gel	Inhalation	respiratory system silicosis	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
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
Ethylbenzene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	Not classified	Rat	NOAEL 2.4 mg/l	5 days
Ethylbenzene	Inhalation	endocrine system	Not classified	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair muscles	Not classified	Multiple animal species	NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart immune system respiratory system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months
Cobalt bis(2- ethylhexanoate)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	similar compoun ds	NOAEL Not available	
1,4-Naphthoquinone	Ingestion	heart endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system	Not classified	Rat	NOAEL 2 mg/kg/day	42 days

3M TM Quick Grip Filler PNs 33177, 33179, 33181, 33183, 3318		3M TM (Duick	Grip	Filler	PNs	33177.	33179	33181	. 33183.	3318
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muscles nervous		
system eyes		
kidney and/or		
bladder respiratory		
system		

Aspiration Hazard

Name	Value
Styrene	Aspiration hazard
Ethylbenzene	Aspiration hazard

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

SECTION 12: Ecological information

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

12.1. Toxicity

Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 3 Chronic Aquatic Toxicity: Category 3

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Polyester Polymer	Trade Secret	N/A	Data not available or	N/A	N/A	N/A
			insufficient for classification			
Resin Polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Talc	14807-96-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Styrene	100-42-5	Activated sludge	Experimental	30 minutes	EC50	500 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	Water flea	Experimental	48 hours	EC50	4.7 mg/l
Styrene	100-42-5	Green algae	Experimental	96 hours	EC10	0.28 mg/l
Styrene	100-42-5	Water flea	Experimental	21 days	NOEC	1.01 mg/l
Inert Filler	Trade Secret	Green algae	Experimental	72 hours	EC50	>1,000 mg/l
Inert Filler	Trade Secret	Water flea	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
Limestone	1317-65-3	Green algae	Estimated	72 hours	EC50	>100 mg/l
Limestone	1317-65-3	Rainbow trout	Estimated	96 hours	LC50	>100 mg/l

Limestone	1317-65-3	Water flea	Estimated	48 hours	EC50	>100 mg/l
Limestone	1317-65-3	Green algae	Estimated	72 hours	EC10	>100 mg/l
Magnesium	546-93-0	Activated	Estimated	3 hours	EC50	>900 mg/l
Carbonate		sludge				
Magnesium	546-93-0	Fathead	Estimated	96 hours	LC50	1,880 mg/l
Carbonate		minnow				_
Magnesium	546-93-0	Green algae	Estimated	72 hours	EC50	>100 mg/l
Carbonate	546.00.0			10.1	7.050	100
Magnesium	546-93-0	Water flea	Estimated	48 hours	LC50	486 mg/l
Carbonate	546.02.0		D .: 1	70.1	NOTE	100 /1
Magnesium	546-93-0	Green algae	Estimated	72 hours	NOEC	100 mg/l
Carbonate	546-93-0	Water flea	Estimated	21 1	EC10	204/1
Magnesium Carbonate	346-93-0	water nea	Estimated	21 days	EC10	284 mg/l
Chlorite-group	1318-59-8	N/A	Data not	N/A	N/A	N/A
minerals	1310-39-6	IN/A	available or	IN/A	IN/A	IN/A
iiiiiciais			insufficient for			
			classification			
Dolomite	16389-88-1	Water flea	Estimated	48 hours	EC50	190 mg/l
Dolomite	16389-88-1	Western	Estimated	96 hours	LC50	>100 mg/l
		Mosquitofish				
Dolomite	16389-88-1	Rainbow trout	Estimated	21 days	NOEC	>100 mg/l
Silica gel	112926-00-8	Green algae	Analogous	72 hours	ErC50	>173.1 mg/l
			Compound			_
Silica gel	112926-00-8	Sediment	Experimental	96 hours	EC50	8,500 mg/kg (Dry
		organism				Weight)
Silica gel	112926-00-8	Water flea	Experimental	24 hours	EL50	>10,000 mg/l
Silica gel	112926-00-8	Zebra Fish	Experimental	96 hours	LL50	>10,000 mg/l
Silica gel	112926-00-8	Green algae	Analogous Compound	72 hours	NOEC	173.1 mg/l
Silica gel	112926-00-8	Water flea	Analogous Compound	21 days	NOEC	68 mg/l
Silica gel	112926-00-8	Activated	Analogous	3 hours	EC50	>1,000 mg/l
		sludge	Compound			
Quartz	14808-60-7	Green algae	Estimated	72 hours	EC50	440 mg/l
Quartz	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Quartz	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Quartz	14808-60-7	Green algae	Estimated	72 hours	NOEC	60 mg/l
Titanium	13463-67-7	Activated	Experimental	3 hours	NOEC	>=1,000 mg/l
dioxide		sludge				
Titanium	13463-67-7	Diatom	Experimental	72 hours	EC50	>10,000 mg/l
dioxide						
Titanium	13463-67-7	Fathead	Experimental	96 hours	LC50	>100 mg/l
dioxide	12462 65 5	minnow	D	40.1	EG50	100 //
Titanium	13463-67-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
dioxide	12462 67 7	Diatom	F	72 1	NOEC	5.600 /1
Titanium dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
Ethylbenzene	100-41-4	Activated	Experimental	49 hours	EC50	130 mg/l
Ethylhomeone	100 41 4	sludge	Evnavimantal	06 harre	1.050	5.1 mg/1
Ethylbenzene	100-41-4	Atlantic Silverside	Experimental	96 hours	LC50	5.1 mg/l
Ethylbenzene	100-41-4	Green algae	Experimental	96 hours	EC50	3.6 mg/l
Ethylbenzene	100-41-4	Mysid Shrimp	Experimental	96 hours	LC50	2.6 mg/l

Ethylbenzene	100-41-4	Rainbow trout	Experimental	96 hours	LC50	4.2 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	48 hours	EC50	1.8 mg/l
Ethylbenzene	100-41-4	Water flea	Experimental	7 days	NOEC	0.96 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Activated sludge	Estimated	30 minutes	EC50	703 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Algae or other aquatic plants	Estimated	7 days	EC50	0.14 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Green algae	Estimated	72 hours	ErC50	0.84 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Rainbow trout	Estimated	96 hours	LC50	8.9 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Water flea	Estimated	48 hours	LC50	3.5 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Algae or other aquatic plants	Estimated	7 days	EC10	0.007 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Fathead minnow	Estimated	34 days	NOEC	1.2 mg/l
Cobalt bis(2- ethylhexanoate	136-52-7	Green algae	Estimated	72 hours	EC10	0.135 mg/l
1,4- Naphthoquinon e	130-15-4	Activated sludge	Experimental	3 hours	EC50	5.94 mg/l
1,4- Naphthoquinon e	130-15-4	Green algae	Experimental	72 hours	EC50	0.42 mg/l
1,4- Naphthoquinon e	130-15-4	Medaka	Experimental	96 hours	LC50	0.045 mg/l
1,4- Naphthoquinon e	130-15-4	Water flea	Experimental	48 hours	EC50	0.026 mg/l
1,4- Naphthoquinon e	130-15-4	Green algae	Experimental	72 hours	NOEC	0.07 mg/l

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polyester	Trade Secret	Data not	N/A	N/A	N/A	N/A
Polymer		availbl-				
		insufficient				
Resin Polymer	Trade Secret	Data not	N/A	N/A	N/A	N/A
•		availbl-				
		insufficient				
Talc	14807-96-6	Data not	N/A	N/A	N/A	N/A
		availbl-				

		insufficient				
Styrene	100-42-5	Experimental Biodegradation	28 days	BOD	70.9 %BOD/Th OD	
Styrene	100-42-5	Experimental Photolysis		Photolytic half- life (in air)	1/2)	
Inert Filler	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Limestone	1317-65-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Magnesium Carbonate	546-93-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Chlorite-group minerals	1318-59-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Dolomite	16389-88-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Silica gel	112926-00-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Quartz	14808-60-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Titanium dioxide	13463-67-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	CO2 evolution	70-80 %CO2 evolution/THC O2 evolution	ISO 14593 Inorg C Headspace
Ethylbenzene	100-41-4	Experimental Photolysis		Photolytic half- life (in air)	4.26 days (t 1/2)	
Cobalt bis(2- ethylhexanoate	136-52-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
1,4- Naphthoquinon e		Experimental Biodegradation	28 days	BOD	0 %BOD/ThO D	OECD 301F - Manometric respirometry
1,4- Naphthoquinon e	130-15-4	Experimental Hydrolysis		Hydrolytic half-life	12 days (t 1/2)	

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polyester	Trade Secret	Data not	N/A	N/A	N/A	N/A
Polymer		available or				
		insufficient for				
		classification				
Resin Polymer	Trade Secret	Data not	N/A	N/A	N/A	N/A
•		available or				
		insufficient for				

		classification				
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Styrene	100-42-5	Experimental Bioconcentrati on		Log Kow	2.96	
Inert Filler	Trade Secret	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
Magnesium Carbonate	546-93-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Chlorite-group minerals	1318-59-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Dolomite	16389-88-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Silica gel	112926-00-8	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
Titanium dioxide	13463-67-7	Experimental BCF - Fish	42 days	Bioaccumulatio n factor		
Ethylbenzene	100-41-4	Experimental BCF - Fish	42 days	Bioaccumulatio n factor		
Cobalt bis(2- ethylhexanoate	136-52-7	Analogous Compound BCF - Fish	63 days	Bioaccumulatio n factor	190	
1,4- Naphthoquinon e	130-15-4	Experimental Bioconcentrati on		Log Kow	1.77	

12.4. Mobility in soil Please contact manufacturer for more details

12.5 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

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

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.

SECTION 15: Regulatory information

HSNO Approval number HSR002669

Group standard name Surface Coatings and Colourants (Flammable, Carcinogenic) Group Standard 2020

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.

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

Certified handler Not required

Location Compliance Certificate 500 L (closed containers greater than 5 L) 1,500 L (closed containers up to and

including 5 L) 250 L (open containers)

3M[™] Quick Grip Filler PNs 33177, 33179, 33181, 33183, 33185

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 Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for all other substances)

Secondary containment 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for all other substances)

Tracking Not required

Warning signage 100 L (for Hazardous to the aquatic environment Category 1 substances); or 1

000 L (for all other substances)

SECTION 16: Other information

Revision information:

Complete document review.

Document group:	32-5008-1	Version number:	3.00
Issue Date:	29/11/2023	Supersedes date:	14/06/2020

Key to abbreviations and acronyms

GHS refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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Safety Data Sheet

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Document group: 29-5993-0 **Version number:** 6.01

Issue Date: 14/10/2024 **Supersedes date:** 07/07/2024

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

SECTION 1: Identification

1.1. Product identifier

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

1.2. Recommended use and restrictions on use

Recommended use

Automotive, Hardener for body fillers and glazes

For Industrial or Professional use only

1.3. Supplier's details

Address: 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland

Telephone: (09) 477 4040

E Mail: innovation@nz.mmm.com

Website: 3m.co.nz

1.4. Emergency telephone number

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

SECTION 2: Hazard identification

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

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

2.1. Classification of the substance or mixture

Organic Peroxide: Type E Eye irritation: Category 2 Skin sensitisation: Category 1

Specific target organ toxicity – single exposure: Category 2 Hazardous to the aquatic environment acute: Category 1 Hazardous to the aquatic environment chronic: Category 1

2.2. Label elements SIGNAL WORD

Warning

Symbols:

Flame | Exclamation mark | Health Hazard | Environment |

Pictograms









HAZARD STATEMENTS:

H242 Heating may cause a fire.

H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.

H371 May cause damage to organs: cardiovascular system | kidney/urinary tract | nervous

system | respiratory system.

H410 Very toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P234 Keep only in original packaging.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280B Wear protective gloves and eye/face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.

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

P337 + P313 IF eye irritation persists: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage

P403 Store in a well-ventilated place.

P405 Store locked up.
P410 Protect from sunlight.

P411 Store at temperatures not exceeding 32 °C.

P420 Store separately.

Disposal

P501

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

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	1 - 10
Calcium Sulfate	7778-18-9	1 - 10
Ethylene Glycol	107-21-1	<= 7.5
Iron oxide (FE2O3)	1309-37-1	<= 5
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	9038-95-3	<= 5
Ferric Ammonium Ferrocyanide	25869-00-5	<= 1
Ferric Ferrocyanide	14038-43-8	<= 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

The most important symptoms and effects based on the CLP classification include:

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

This product contains ethylene glycol. If there is reasonable suspicion of ethylene glycol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

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

3MTM Cream Hardener (Red, White & Blue)

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 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

Collect as much of the spilled material as possible using non-sparking tools. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

Refer to Section 15 - Controls for more information

7.1. Precautions for safe handling

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. 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. 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. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient Ethylene Glycol	CAS Nbr 107-21-1	Agency ACGIH	Limit type TWA(Vapour fraction):25 ppm;STEL(Vapour fraction):50 ppm;STEL(Inhalable aerosol):10 mg/m3	Additional comments A4: Not class. as human carcinogin
Ethylene Glycol	107-21-1	New Zealand WES	CEIL(Vapor and mist):127 mg/m3(50 ppm)	
Iron oxide (FE2O3)	1309-37-1	ACGIH	TWA(respirable fraction):5 mg/m3	A4: Not class. as human carcinogin
Iron oxide (FE2O3)	1309-37-1	New Zealand WES	TWA(as Fe, dust and fume)(8 hours):5 mg/m3	-
CYANIDES	14038-43-8	New Zealand WES	TWA(8 hours):5 mg/m3	Dermal sensitizer, SKIN
Dust, inert or nuisance	557-05-1	New Zealand WES	TWA(as respirable dust)(8 hours):3 mg/m3;TWA(as inhalable dust)(8 hours):10 mg/m3	
Calcium Sulfate	7778-18-9	ACGIH	TWA(inhalable fraction):10 mg/m3	
Calcium Sulfate	7778-18-9	New Zealand WES	TWA(8 hours):10 mg/m3	
Dibenzoyl peroxide	94-36-0	ACGIH	TWA:5 mg/m3	A4: Not class. as human carcinogin
Dibenzoyl peroxide	94-36-0	New Zealand WES	TWA(8 hours):5 mg/m3	Dermal sensitizer

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

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: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

Half facepiece or full facepiece air-purifying respirator suitable for 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

Diser's all state	0.11.4
Physical state	Solid.
Specific Physical Form:	Paste
Colour	Red
Odour	Slight Ester
Odour threshold	No data available.
рН	No data available.
Melting point/Freezing point	No data available.
Boiling point/Initial boiling point/Boiling range	No data available.
Flash point	111 °C [Test Method: Estimated]
Evaporation rate	No data available.
Flammability	Organic Peroxide: Type E.
Flammable Limits(LEL)	Not applicable.
Flammable Limits(UEL)	Not applicable.
Vapour pressure	Not applicable.
Vapor Density and/or Relative Vapor Density	Not applicable.
Density	1.2 g/cm3
Relative density	1.2 [@ 25 °C] [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	No data available.
Partition coefficient: n-octanol/water	No data available.
Autoignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic Viscosity	No data available.
Volatile organic compounds (VOC)	0 - 90 g/l [Test Method:calculated SCAQMD rule 443.1]
Volatile organic compounds (VOC)	0 % weight [Test Method:calculated per CARB title 2]
Percent volatile	21 - 28.5 %
VOC less H2O & exempt solvents	0 - 121 g/l [Test Method:calculated SCAQMD rule 443.1]
Molecular weight	Not applicable.

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Particle Characteristics

Not applicable.

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

Substance

Condition

Carbon monoxide.
Carbon dioxide.
Toxic vapour, gas, particulate.

Not specified. Not specified. Not specified.

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

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.

Eve 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. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Cardiac effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate. Respiratory effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure. Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

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 > 5.5 mg/l
Benzoic Acid, C9-11-Branched Alkyl Esters	Ingestion	Rat	LD50 > 5,000 mg/kg
Calcium Sulfate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.61 mg/l
Calcium Sulfate	Ingestion	Rat	LD50 > 1,581 mg/kg
Calcium Sulfate	Dermal	similar health hazards	LD50 estimated to be > 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 > 2,000 mg/kg
Ethylene Glycol	Ingestion	Human	LD50 1,600 mg/kg
Ethylene Glycol	Inhalation- Dust/Mist (4 hours)	Other	LC50 estimated to be 5 - 12.5 mg/l
Ethylene Glycol	Dermal	Rabbit	9,530 mg/kg
Iron oxide (FE2O3)	Dermal	Not available	LD50 3,100 mg/kg
Iron oxide (FE2O3)	Ingestion	Not available	LD50 3,700 mg/kg
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Dermal	Rabbit	LD50 > 16,960 mg/kg
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
Ferric Ferrocyanide	Dermal	Professio nal judgeme	LD50 estimated to be > 5,000 mg/kg

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Ferric Ammonium Ferrocyanide	Dermal	Rat	LD50 > 2,000 mg/kg
Ferric Ammonium Ferrocyanide	Ingestion	Rat	LD50 > 2,000 mg/kg
Ferric Ferrocyanide	Ingestion	similar	LD50 > 2,000 mg/kg
		compoun	
		ds	

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Dibenzoyl peroxide	Rabbit	Minimal irritation
Benzoic Acid, C9-11-Branched Alkyl Esters	Rabbit	Minimal irritation
Calcium Sulfate	Rabbit	No significant irritation
Zinc Stearate	Rabbit	No significant irritation
Ethylene Glycol	Rabbit	Minimal irritation
Iron oxide (FE2O3)	Rabbit	No significant irritation
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Rabbit	Minimal irritation
Ferric Ammonium Ferrocyanide	Rabbit	No significant irritation
Ferric Ferrocyanide	similar	No significant irritation
	compoun	
	ds	

Serious Eye Damage/Irritation

Name	Species	Value
Dibenzoyl peroxide	Rabbit	Severe irritant
Benzoic Acid, C9-11-Branched Alkyl Esters	Rabbit	Mild irritant
Calcium Sulfate	Rabbit	Mild irritant
Zinc Stearate	Rabbit	No significant irritation
Ethylene Glycol	Rabbit	Mild irritant
Iron oxide (FE2O3)	Rabbit	No significant irritation
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Rabbit	No significant irritation
Ferric Ammonium Ferrocyanide	Rabbit	Mild irritant
Ferric Ferrocyanide	similar	No significant irritation
	compoun	
	ds	

Sensitisation:

Skin Sensitisation

Name	Species	Value	
Dibenzoyl peroxide	Guinea pig	Sensitising	
Benzoic Acid, C9-11-Branched Alkyl Esters	Guinea pig	Not classified	
Calcium Sulfate	Guinea pig	Not classified	
Zinc Stearate	Human	Not classified	
Ethylene Glycol	Human	Not classified	
Iron oxide (FE2O3)	Human	Not classified	
Ferric Ammonium Ferrocyanide	Mouse	Not classified	
Ferric Ferrocyanide	similar compoun ds	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

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Dibenzoyl peroxide	In Vitro	Not mutagenic
Dibenzoyl peroxide	In vivo	Not mutagenic
Benzoic Acid, C9-11-Branched Alkyl Esters	In Vitro	Not mutagenic
Benzoic Acid, C9-11-Branched Alkyl Esters	In vivo	Not mutagenic
Calcium Sulfate	In Vitro	Not mutagenic
Calcium Sulfate	In vivo	Not mutagenic
Zinc Stearate	In Vitro	Not mutagenic
Ethylene Glycol	In Vitro	Not mutagenic
Ethylene Glycol	In vivo	Not mutagenic
Iron oxide (FE2O3)	In Vitro	Not mutagenic
Ferric Ammonium Ferrocyanide	In Vitro	Not mutagenic
Ferric Ferrocyanide	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
Ethylene Glycol	Ingestion	Multiple animal species	Not carcinogenic
Iron oxide (FE2O3)	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Ingestion	Rat	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

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
Benzoic Acid, C9-11-Branched Alkyl Esters	Ingestion	Not classified for female reproduction	Rat	NOAEL 641 mg/kg/day	2 generation
Benzoic Acid, C9-11-Branched Alkyl Esters	Ingestion	Not classified for male reproduction	Rat	NOAEL 676 mg/kg/day	2 generation
Benzoic Acid, C9-11-Branched Alkyl Esters	Ingestion	Not classified for development	Rat	NOAEL 191 mg/kg/day	2 generation
Calcium Sulfate	Ingestion	Not classified for female reproduction	Rat	NOAEL 790 mg/kg/day	premating into lactation
Calcium Sulfate	Ingestion	Not classified for male reproduction	Rat	NOAEL 790 mg/kg/day	35 days
Calcium Sulfate	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,600 mg/kg/day	during organogenesis
Ethylene Glycol	Dermal	Not classified for development	Mouse	NOAEL 3,549 mg/kg/day	during organogenesis
Ethylene Glycol	Ingestion	Not classified for development	Mouse	LOAEL 750 mg/kg/day	during organogenesis
Ethylene Glycol	Inhalation	Not classified for development	Mouse	NOAEL 1,000 mg/kg/day	during organogenesis
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	Inhalation	Not classified for male reproduction	Rat	NOAEL 1 mg/l	2 weeks

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Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Ethylene Glycol	Ingestion	heart nervous system kidney and/or bladder respiratory system	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
Ethylene Glycol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Ethylene Glycol	Ingestion	liver	Not classified	Human	NOAEL Not available	poisoning and/or abuse
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
Benzoic Acid, C9-11- Branched Alkyl Esters	Ingestion	heart skin endocrine system gastrointestinal tract bone, teeth, nails, and/or hair hematopoietic system liver immune system muscles nervous system eyes kidney and/or bladder respiratory system vascular system	Not classified	Rat	NOAEL 619 mg/kg/day	91 days
Calcium Sulfate	Ingestion	liver kidney and/or bladder heart endocrine system gastrointestinal tract hematopoietic system immune system nervous system respiratory	Not classified	Rat	NOAEL 790 mg/kg/day	35 days
Zinc Stearate	Ingestion	system heart endocrine system gastrointestinal tract hematopoietic system liver immune system nervous system eyes kidney and/or bladder respiratory system		Rat	NOAEL 1,000 mg/kg/day	28 days
Ethylene Glycol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene Glycol	Ingestion	vascular system	Not classified	Rat	NOAEL 200 mg/kg/day	2 years
Ethylene Glycol	Ingestion	heart hematopoietic system liver immune system muscles			NOAEL 1,000 mg/kg/day	2 years
Ethylene Glycol	Ingestion	respiratory system	Not classified	Mouse	NOAEL 12,000 mg/kg/day	2 years

Ethylene Glycol	Ingestion	skin endocrine system bone, teeth, nails, and/or hair nervous system eyes	Not classified	Multiple animal species	NOAEL 1,000 mg/kg/day	2 years
Iron oxide (FE2O3)	Inhalation	pulmonary fibrosis pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
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

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 expected to be available for exposure, or the data is considered not relevant to the material as a whole.

12.1. Toxicity

Ecotoxic to the aquatic environment.

Acute Aquatic Toxicity: Category 1 Chronic Aquatic Toxicity: Category 1

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Dibenzoyl peroxide	94-36-0	Green algae	Experimental	72 hours	EC50	0.071 mg/l
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	NOEC	0.02 mg/l

Dibenzoyl	94-36-0	Water flea	Experimental	21 days	EC10	0.001 mg/l
peroxide			1			
Dibenzoyl	94-36-0	Activated	Experimental	30 minutes	EC50	35 mg/l
peroxide		sludge				
Dibenzoyl peroxide	94-36-0	Redworm	Experimental	14 days	LC50	>1,000 mg/kg (Dry Weight)
Dibenzoyl peroxide	94-36-0	Soil microbes	Experimental	28 days	EC50	2,300 mg/kg (Dry Weight)
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Green algae	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Rainbow trout	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Fathead minnow	Experimental	33 days	No tox obs at lmt of water sol	>100 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Green algae	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Midge	Experimental	28 days	NOEC	64.7 mg/kg (Dry Weight)
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Water flea	Experimental	21 days	No tox obs at lmt of water sol	>100 mg/l
Benzoic Acid, C9-11- Branched Alkyl Esters	131298-44-7	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
Calcium Sulfate	7778-18-9	Activated sludge	Estimated	3 hours	NOEC	1,000 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	Bluegill	Experimental	96 hours	LC50	>2,980 mg/l
Calcium Sulfate	7778-18-9	Water flea	Experimental	48 hours	LC50	>1,970 mg/l
Calcium Sulfate	7778-18-9	Water flea	Estimated	21 days	NOEC	1,270 mg/l
Zinc Stearate	557-05-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
Zinc Stearate	557-05-1	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Ethylene	107-21-1	Bacteria	Experimental	16 hours	EC50	10,000 mg/l

Glycol						
Ethylene	107-21-1	Fathead	Experimental	96 hours	LC50	8,050 mg/l
Glycol	107-21-1	minnow	Experimental	90 110018	LC30	0,030 mg/1
Ethylene	107-21-1		Experimental	72 hours	EC50	>1,000 mg/l
Glycol	107-21-1	Green algae	Experimental	/2 Hours	ECSU	71,000 mg/1
Ethylene	107-21-1	Water flea	E-manimantal	40 h a	EC50	> 1 100 ··· ~/1
_	10/-21-1	w ater flea	Experimental	48 hours	EC30	>1,100 mg/l
Glycol	107.01.1	G 1	 	72.1	NOEG	1.000 /1
Ethylene	107-21-1	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
Glycol	105.01.1	777 . O	D 1 . 1	21.1	NOEG	100 /1
Ethylene	107-21-1	Water flea	Experimental	21 days	NOEC	100 mg/l
Glycol	1200 27 1		D		NT . 1 .	100 //
Iron oxide	1309-37-1	Green algae	Experimental	72 hours	No tox obs at	>100 mg/l
(FE2O3)					lmt of water sol	
Iron oxide	1309-37-1	Water flea	Experimental	48 hours	No tox obs at	>100 mg/l
(FE2O3)					lmt of water sol	
Iron oxide	1309-37-1	Zebra Fish	Experimental	96 hours	No tox obs at	>100 mg/l
(FE2O3)					lmt of water sol	
Iron oxide	1309-37-1	Green algae	Experimental	72 hours	No tox obs at	>100 mg/l
(FE2O3)					lmt of water sol	
Iron oxide	1309-37-1	Water flea	Experimental	21 days	No tox obs at	>100 mg/l
(FE2O3)					lmt of water sol	
Iron oxide	1309-37-1	Activated	Experimental	3 hours	EC50	>10,000 mg/l
(FE2O3)		sludge				
Oxirane,	9038-95-3	Fathead	Experimental	96 hours	LC50	24,500 mg/l
Polymer with		minnow				
Methyloxirane,						
Monobutyl						
Ether						
Oxirane,	9038-95-3	Water flea	Experimental	48 hours	EC50	21,000 mg/l
Polymer with						
Methyloxirane,						
Monobutyl						
Ether						
Oxirane,	9038-95-3	Activated	Experimental	16 hours	IC50	32,000 mg/l
Polymer with		sludge				
Methyloxirane,						
Monobutyl						
Ether						
Ferric	25869-00-5	Water flea	Endpoint not	24 hours	EC50	>100 mg/l
Ammonium			reached			
Ferrocyanide						
Ferric	25869-00-5	Activated	Experimental	3 hours	NOEC	100 mg/l
Ammonium		sludge				
Ferrocyanide						
Ferric	25869-00-5	Common Carp	Experimental	96 hours	LC50	>100 mg/l
Ammonium						
Ferrocyanide						
Ferric	25869-00-5	Green algae	Experimental	72 hours	EC50	9.7 mg/l
Ammonium						
Ferrocyanide						
Ferric	25869-00-5	Green algae	Experimental	72 hours	NOEC	8 mg/l
Ammonium			_			
Ferrocyanide		<u> </u>			<u> </u>	
Ferric	25869-00-5	Water flea	Experimental	21 days	EC10	0.168 mg/l
Ferric	25869-00-5	Water flea	Experimental	21 days	JEC10	U.168 mg/I

Ammonium						
Ferrocyanide						
Ferric	14038-43-8	Golden Orfe	Estimated	96 hours	LC50	>100 mg/l
Ferrocyanide						_

12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Dibenzoyl	94-36-0	Experimental	28 days	BOD	71 %BOD/ThO	OECD 301D - Closed
peroxide		Biodegradation			D	bottle test
Dibenzoyl	94-36-0	Experimental		Hydrolytic	5.2 hours (t	OECD 111 Hydrolysis
peroxide		Hydrolysis		half-life	1/2)	func of pH
Benzoic Acid,	131298-44-7	Experimental	28 days	BOD	77.7 %BOD/Th	OECD 301F -
C9-11-		Biodegradation			OD	Manometric
Branched Alkyl Esters						respirometry
Calcium	7778-18-9	Data not	N/A	N/A	N/A	N/A
Sulfate		availbl-				
		insufficient				
Zinc Stearate	557-05-1	Experimental	28 days	BOD		OECD 301D - Closed
		Biodegradation			OD	bottle test
Ethylene	107-21-1	Experimental	14 days	BOD		OECD 301C - MITI
Glycol		Biodegradation			D	test (I)
Iron oxide	1309-37-1	Data not	N/A	N/A	N/A	N/A
(FE2O3)		availbl-				
		insufficient				
Oxirane,	9038-95-3	Experimental	28 days	CO2 evolution	45 %CO2	similar to OECD 301B
Polymer with		Biodegradation			evolution/THC	
Methyloxirane,					O2 evolution	
Monobutyl Ether					(does not pass	
Etner					10-day window)	
Ferric	25869-00-5	Data not	N/A	N/A	N/A	N/A
Ammonium	23009-00-3	availbl-	1 N/ A	11/11	11/11	1 V / A
Ferrocyanide		insufficient				
Ferric	14038-43-8	Data not	N/A	N/A	N/A	N/A
Ferrocyanide	17030-43-0	availbl-	11 1/ [1]	1 1/ /1	1 W/ EX	11//
1 chocyamac						
21100 y annuo		insufficient				

12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Dibenzoyl	94-36-0	Experimental		Log Kow	3.2	OECD 117 log Kow
peroxide		Bioconcentrati				HPLC method
		on				
Benzoic Acid,	131298-44-7	Modeled		Bioaccumulatio	288	Catalogic TM
C9-11-		Bioconcentrati		n factor		
Branched Alkyl		on				
Esters						
Benzoic Acid,	131298-44-7	Experimental		Log Kow	4.61	EC A.8 Partition
C9-11-		Bioconcentrati				Coefficient
Branched Alkyl		on				
Esters						
Calcium	7778-18-9	Data not	N/A	N/A	N/A	N/A

Sulfate		available or insufficient for classification				
Zinc Stearate	557-05-1	Experimental Bioconcentrati on		Log Kow	4.64	OECD 117 log Kow HPLC method
Ethylene Glycol	107-21-1	Experimental Bioconcentrati on		Log Kow	-1.36	
Iron oxide (FE2O3)	1309-37-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Oxirane, Polymer with Methyloxirane, Monobutyl Ether	9038-95-3	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
Ferric Ferrocyanide	14038-43-8	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

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

Dispose of waste product in a permitted industrial waste facility. 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), <= 52%)

Class/Division: 5.2

3MTM Cream Hardener (Red, White & Blue)

Sub Risk: Not applicable. **Packing Group:** Not applicable.

Special Instructions: Limited quantity may apply

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), <= 52%)

Class/Division: 5.2 Sub Risk: Not applicable. Packing Group: Not applicable.

Special Instructions: Forbidden packaging does not meet requirements for this mode of transport

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN3108

Proper Shipping Name: ORGANIC PEROXIDE TYPE E, SOLID, (Dibenzoyl Peroxide (as a paste), <= 52%)

Class/Division: 5.2
Sub Risk: Not applicable.
Packing Group: Not applicable.
Marine Pollutant: Dibenzoyl peroxide

Special Instructions: Limited quantity may apply

SECTION 15: Regulatory information

HSNO Approval number HSR002629

Group standard name Organic Peroxides Group Standard 2020 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.

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

Certified handler Not required Location Compliance Certificate 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:

Complete document review.

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Key to abbreviations and acronyms

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

HSNO means Hazardous Substances and New Organisms Act 1996

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