



Safety Data Sheet

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|------------------------|------------|-------------------------|------------|
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| Issue Date: | 10/04/2019 | Supersedes date: | 07/02/2017 |

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™ EZ Sand Multi-Purpose Repair Material PN 05887 35887, 55887

Product Identification Numbers

60-4550-5209-6 60-9801-0922-1

1.2. Recommended use and restrictions on use

Recommended use

Automotive.

1.3. Supplier's details

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

1.4. Emergency telephone number

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

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:

28-6979-0, 28-6974-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and the Hazardous Substances (Minimum Degrees of Hazard) Notice 2017.

TRANSPORT INFORMATION

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

UN No.: UN3082

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol A)

epichlorohydrin polymer)

Class/Division:9

Packing Group:III

Marine Pollutant: Bisphenol A epichlorohydrin polymer

Hazchem Code:3Z

IERG:47

Land Transport Rule: Dangerous Goods - Road/Rail Transport

Special Instructions:Not restricted, environmentally hazardous substance exception.

International Air Transport Association (IATA)- Air Transport

Special Instructions:Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

Special Instructions:Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

Revision information:

Update to component classification.

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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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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 28-6974-1 | Version number: | 2.00 |
| Issue Date: | 01/04/2019 | Supersedes date: | 07/02/2017 |

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™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Accelerator (Part A)

1.2. Recommended use and restrictions on use

Recommended use

Automotive. Part A side of 2-Part Epoxy Adhesive for Flexible Parts 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

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

| GHS | HSNO |
|--|---|
| Acute Toxicity (oral): Category 5 | 6.1E Acute toxicity (oral) |
| Serious Eye Damage/Irritation: Category 1 | 8.3A Corrosive to eye |
| Skin Corrosion/Irritation: Category 2 | 6.3A Irritating to the skin |
| Skin Sensitiser: Category 1 | 6.5B Skin sensitiser |
| Carcinogenicity: Category 1 | 6.7A Known/presumed human carcinogen |
| Specific Target Organ Toxicity (repeated exposure): Category 1 | 6.9A Toxic to human target organs/systems |

2.2. Label elements

SIGNAL WORD

DANGER!

Symbols:

Corrosion | Exclamation mark | Health Hazard |

Pictograms



HAZARD STATEMENTS:

| | |
|------|--|
| H303 | May be harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure: respiratory system |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280A | Wear eye/face protection. |
| P280E | Wear protective gloves. |
| P270 | Do not eat, drink or smoke when using this product. |
| P264B | Wash exposed skin thoroughly after handling. |
| P272A | Contaminated work clothing must not be allowed out of the workplace. |

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. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| P321 | Specific treatment (see Notes to Physician on this label). |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell. |
| P314 | Get medical advice/attention if you feel unwell. |

Storage:

| | |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

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 |
|---|------------|-------------|
| Limestone | 1317-65-3 | 10 - 30 |
| Oxide Glass Chemicals | 65997-17-3 | 1 - 10 |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | 90-72-2 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | < 1.0 |
| Quartz | 14808-60-7 | < 0.5 |

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 ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide.
Carbon dioxide.
Oxides of nitrogen.
Oxides of sulphur.
Toxic vapour, gas, particulate.

Condition

During combustion.
During combustion.
During combustion.
During combustion.
During combustion.

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: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. 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. Wash contaminated clothing before reuse. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed. Store away from heat. Store away from acids. 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.

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|---|----------------|-----------------|---|------------------------------------|
| Titanium dioxide | 13463-67-7 | ACGIH | TWA:10 mg/m ³ | A4: Not class. as human carcinogen |
| Titanium dioxide | 13463-67-7 | New Zealand WES | TWA(8 hours):10 mg/m ³ | |
| Quartz | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m ³ | A2: Suspected human carcin. |
| Silica, crystalline (airborne particles of respirable size) | 14808-60-7 | New Zealand WES | TWA(as respirable dust)(8 hours): 0.1 mg/m ³ | Class-subclass 6.7, carc HCA |
| Ceramic fibres | 65997-17-3 | ACGIH | TWA(as fiber):0.2 fiber/cc | A2: Suspected human |

| | | | | |
|--|------------|-----------------|--|---|
| CONTINUOUS FILAMENT GLASS FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | carcin. A4: Not class. as human carcinogen |
| CONTINUOUS FILAMENT GLASS FIBERS, INHALABLE FRACTION | 65997-17-3 | ACGIH | TWA(inhalable fraction):5 mg/m3 | A4: Not class. as human carcinogen |
| Glass filaments | 65997-17-3 | New Zealand WES | TWA(as inhalable dust)(8 hours):5 mg/m3;TWA(as respirable dust)(8 hours):1 f/mL;TWA(Respirable fibers)(8 hours):1 f/mL | |

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
 CELL: 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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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:

Full face shield.

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

| | |
|---|--|
| Physical state | Solid. |
| Specific Physical Form: | Paste |
| Appearance/Odour | Off-white, strong mercaptan odour |
| Odour threshold | <i>No data available.</i> |
| pH | <i>Not applicable.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | 245.6 °C |
| Evaporation rate | <i>No data available.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>No data available.</i> |
| Vapour density | <i>No data available.</i> |
| Density | 1.1 - 1.1 kg/l |
| Relative density | 1.078 - 1.09 [Ref Std:WATER=1] |
| Water solubility | <i>No data available.</i> |
| Solubility- non-water | <i>No data available.</i> |
| Partition coefficient: n-octanol/water | <i>No data available.</i> |
| Autoignition temperature | <i>No data available.</i> |
| Decomposition temperature | <i>No data available.</i> |
| Viscosity | 100 - 150 Saybolt Universal Second [Details:Pressflow Viscosity] |
| Molecular weight | <i>No data available.</i> |
| Volatile organic compounds (VOC) | 1 g/l [Test Method:calculated SCAQMD rule 443.1] |
| Volatile organic compounds (VOC) | 0.1 % weight [Test Method:calculated per CARB title 2] |
| Percent volatile | 0.1 % weight |
| VOC less H2O & exempt solvents | 1 g/l [Test Method:calculated SCAQMD rule 443.1] |

SECTION 10: Stability and reactivity

10.1 Reactivity

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

None known.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Substance

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

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.
Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye contact

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion

May be harmful if swallowed.

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

Additional Health Effects:

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.

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 |

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Accelerator (Part A)

| | | | |
|---|--------------------------------|--------|---|
| Overall product | Inhalation-Dust/Mist(4 hr) | | No data available; calculated ATE >12.5 mg/l |
| Overall product | Ingestion | | No data available; calculated ATE 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 |
| Oxide Glass Chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Oxide Glass Chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Dermal | Rat | LD50 1,280 mg/kg |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Ingestion | Rat | LD50 1,000 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 |
| 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 |
|---|------------------------|---------------------------|
| Limestone | Rabbit | No significant irritation |
| Oxide Glass Chemicals | Professional judgement | No significant irritation |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Rabbit | Corrosive |
| Titanium dioxide | Rabbit | No significant irritation |
| Quartz | Professional judgement | No significant irritation |

Serious Eye Damage/Irritation

| Name | Species | Value |
|---|------------------------|---------------------------|
| Limestone | Rabbit | No significant irritation |
| Oxide Glass Chemicals | Professional judgement | No significant irritation |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Rabbit | Corrosive |
| Titanium dioxide | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|---|------------------|----------------|
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Guinea pig | Not classified |
| Titanium dioxide | Human and animal | Not classified |

Respiratory Sensitisation

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

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Accelerator (Part A)**Germ Cell Mutagenicity**

| Name | Route | Value |
|---|----------|--|
| Oxide Glass Chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | 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 |

Carcinogenicity

| Name | Route | Species | Value |
|-----------------------|------------|-------------------------|--|
| Oxide Glass Chemicals | 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 |
|-----------|-----------|--------------------------------|---------|---------------------|------------------------------|
| 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 |
|---|------------|------------------------|--|---------|---------------------|-------------------|
| Limestone | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|---|------------|---|--|---------|---------------------|-----------------------|
| Limestone | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Oxide Glass Chemicals | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |
| Tris(2,4,6-Dimethylaminomonomethyl)Phenol | Dermal | skin liver nervous system auditory system hematopoietic system eyes | Not classified | Rat | NOAEL 125 mg/kg/day | 28 days |
| 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 | Human | NOAEL Not | occupational |

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Accelerator (Part A)

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

12.1. Toxicity

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|--|------------|----------------|--------------|----------|--------------------------|--------------|
| 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 | Effect Concentration 10% | >100 mg/l |
| Oxide Glass Chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide Glass Chemicals | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Oxide Glass Chemicals | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Oxide Glass Chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| Tris(2,4,6-Dimethylamino monomethyl)Phenol | 90-72-2 | Common Carp | Experimental | 96 hours | LC50 | 175 mg/l |
| Tris(2,4,6-Dimethylamino monomethyl)Phenol | 90-72-2 | Grass Shrimp | Experimental | 96 hours | LC50 | 718 mg/l |
| Tris(2,4,6-Dimethylamino monomethyl)Phenol | 90-72-2 | Green algae | Experimental | 72 hours | EC50 | 84 mg/l |
| Tris(2,4,6-Dimethylamino monomethyl)Phenol | 90-72-2 | Green algae | Experimental | 72 hours | NOEC | 6.25 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | EC50 | >10,000 mg/l |
| Titanium dioxide | 13463-67-7 | Fathead minnow | Experimental | 96 hours | LC50 | >100 mg/l |

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Accelerator (Part A)

| | | | | | | |
|------------------|------------|------------|---|----------|------|------------|
| Titanium dioxide | 13463-67-7 | Water flea | Experimental | 48 hours | EC50 | >100 mg/l |
| Titanium dioxide | 13463-67-7 | Diatom | Experimental | 72 hours | NOEC | 5,600 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 |
|--|------------|------------------------------------|----------|------------|-------------|--------------------------------|
| Limestone | 1317-65-3 | Data not available or insufficient | | | N/A | |
| Oxide Glass Chemicals | 65997-17-3 | Data not available or insufficient | | | N/A | |
| Tris(2,4,6-Dimethylamino monomethyl)Phenol | 90-72-2 | Experimental Biodegradation | 28 days | BOD | 4 % weight | OECD 301D - Closed bottle test |
| Titanium dioxide | 13463-67-7 | Data not available or insufficient | | | N/A | |
| Quartz | 14808-60-7 | Data not available or insufficient | | | N/A | |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|---|----------|------------------------|-------------|---------------|
| Limestone | 1317-65-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Oxide Glass Chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Tris(2,4,6-Dimethylamino monomethyl)Phenol | 90-72-2 | Experimental Bioconcentration | | Log Kow | -0.66 | Other methods |
| Titanium dioxide | 13463-67-7 | Experimental BCF-Carp | 42 days | Bioaccumulation factor | 9.6 | Other methods |
| 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

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 uncured product 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.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

| | |
|----------------------------|---|
| HSNO Approval number | HSR002679 |
| Group standard name | Surface Coatings and Colourants (Toxic [6.7]) Group Standard 2017 |
| 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 (Hazardous Substances) Regulations 2017

| | |
|---------------------------------|---|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for all other substances) |
| Secondary containment | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for all other substances) |
| Tracking | Not required |
| Warning signage | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.1D or 9.1D substance) |

SECTION 16: Other information**Revision information:**

Complete document review.

| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 28-6974-1 | Version number: | 2.00 |
| Issue Date: | 01/04/2019 | Supersedes date: | 07/02/2017 |

Key to abbreviations and acronyms**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013**HSNO** means Hazardous Substances and New Organisms Act 1996

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Safety Data Sheet

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| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 28-6979-0 | Version number: | 2.00 |
| Issue Date: | 01/04/2019 | Supersedes date: | 07/02/2017 |

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™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Part B (Base)

1.2. Recommended use and restrictions on use

Recommended use

Automotive., Flexible Parts Repair

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, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

2.1. Classification of the substance or mixture

| GHS | HSNO |
|--|---|
| Serious Eye Damage/Irritation: Category 2 | 6.4A Irritating to the eye |
| Skin Corrosion/Irritation: Category 3 | 6.3B Irritating to the skin |
| Skin Sensitiser: Category 1 | 6.5B Skin sensitiser |
| Carcinogenicity: Category 1 | 6.7A Known/presumed human carcinogen |
| Specific Target Organ Toxicity (repeated exposure): Category 1 | 6.9A Toxic to human target organs/systems |
| Acute Aquatic Toxicity: Category 1 | 9.1A Aquatic toxicity (acute) |

| | |
|--------------------------------------|---------------------------------|
| Chronic Aquatic Toxicity: Category 2 | 9.1B Aquatic toxicity (chronic) |
|--------------------------------------|---------------------------------|

2.2. Label elements

SIGNAL WORD

DANGER!

Symbols:

Exclamation mark | Health Hazard | Environment |

Pictograms



HAZARD STATEMENTS:

| | |
|------|--|
| H320 | Causes eye irritation. |
| H316 | Causes mild skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure: respiratory system |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTIONARY STATEMENTS

Prevention:

| | |
|-------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P280E | Wear protective gloves. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P264B | Wash exposed skin thoroughly after handling. |
| P272A | Contaminated work clothing must not be allowed out of the workplace. |

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. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P302 + P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| P308 + P313 | IF exposed or concerned: Get medical advice/attention. |
| P321 | Specific treatment (see Notes to Physician on this label). |
| P314 | Get medical advice/attention if you feel unwell. |

Storage:

| | |
|------|------------------|
| P405 | Store locked up. |
|------|------------------|

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Part B (Base)**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 |
|--|----------------|--------------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | 20 - 50 |
| Talc | 14807-96-6 | 10 - 30 |
| Limestone | 1317-65-3 | 10 - 30 |
| 12-(Oxiranylmethoxy)-9-octadecenoic acid, 1,2,3-propanetriyl ester | 74398-71-3 | 5 - 15 |
| Glass, oxide, chemicals | 65997-17-3 | 1 - 10 |
| Siloxanes and Silicones, di-Me, reaction products with silica | Mixture | < 3 |
| Stearic Acid | 57-11-4 | < 1.5 |
| Quartz | 14808-60-7 | < 0.5 |

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. If you feel unwell, get medical attention.

Skin contact

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

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

None inherent in this product.

Hazardous Decomposition or By-Products**Substance**

Aldehydes.

Condition

During combustion.

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Part B (Base)

Carbon monoxide.
Carbon dioxide.
Hydrogen Chloride

During combustion.
During combustion.
During combustion.

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: 3Z

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. 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

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. 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. Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed. Store away from heat. Store away from acids.

7.3. Certified handler

Not required

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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

| Ingredient | CAS Nbr | Agency | Limit type | Additional comments |
|-------------------------|------------|--------------------|---|-------------------------|
| Dust, inert or nuisance | 14807-96-6 | New Zealand WES | TWA(as inhalable dust)(8 hours):10 mg/m3 | |
| Talc | 14807-96-6 | ACGIH | TWA(respirable fraction):2 | A4: Not class. as human |

| | | | | |
|---|------------|-----------------|---|------------------------------------|
| Talc | 14807-96-6 | New Zealand WES | mg/m ³ TWA(as respirable dust)(8 hours):2 mg/m ³ | carcinogen |
| Quartz | 14808-60-7 | ACGIH | TWA(respirable fraction):0.025 mg/m ³ | A2: Suspected human carcin. |
| Silica, crystalline (airborne particles of respirable size) | 14808-60-7 | New Zealand WES | TWA(as respirable dust)(8 hours): 0.1 mg/m ³ | Class-subclass 6.7, carc HCA |
| Stearates | 57-11-4 | ACGIH | TWA(inhalable fraction):10 mg/m ³ ;TWA(respirable fraction):3 mg/m ³ | A4: Not class. as human carcinogen |
| Stearates | 57-11-4 | New Zealand WES | TWA(8 hours):10 mg/m ³ | |
| Ceramic fibres | 65997-17-3 | ACGIH | TWA(as fiber):0.2 fiber/cc | A2: Suspected human carcin. |
| CONTINUOUS FILAMENT GLASS FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | A4: Not class. as human carcinogen |
| CONTINUOUS FILAMENT GLASS FIBERS, INHALABLE FRACTION | 65997-17-3 | ACGIH | TWA(inhalable fraction):5 mg/m ³ | A4: Not class. as human carcinogen |
| Glass filaments | 65997-17-3 | New Zealand WES | TWA(as inhalable dust)(8 hours):5 mg/m ³ ;TWA(as respirable dust)(8 hours):1 f/mL;TWA(Respirable fibers)(8 hours):1 f/mL | |
| GLASS WOOL FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | A3: Confirmed animal carcinogen. |
| ROCK WOOL FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | A3: Confirmed animal carcinogen. |
| SLAG WOOL FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | A3: Confirmed animal carcinogen. |
| SPECIAL PURPOSE GLASS FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | 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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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

| | |
|--|--|
| Physical state | Solid. |
| Specific Physical Form: | Paste |
| Appearance/Odour | Black, with little odour |
| Odour threshold | <i>No data available.</i> |
| pH | <i>Not applicable.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>Not applicable.</i> |
| Flash point | 248.3 °C [<i>Test Method</i> :Estimated] |
| Evaporation rate | <i>No data available.</i> |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>Not applicable.</i> |
| Flammable Limits(UEL) | <i>Not applicable.</i> |
| Vapour pressure | <i>No data available.</i> |
| Vapour density | <i>No data available.</i> |
| Density | 1 - 1.5 g/ml |
| Relative density | 1 - 1.5 [<i>Ref Std</i> :WATER=1] |
| Water solubility | Nil |
| 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 | 40 - 110 Saybolt Universal Second [<i>Details</i> :Pressflow Viscosity] |
| Molecular weight | <i>No data available.</i> |
| Volatile organic compounds (VOC) | 1 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1] |
| Volatile organic compounds (VOC) | 0.1 % weight [<i>Test Method</i> :calculated per CARB title 2] |
| Percent volatile | 0.1 % weight |

VOC less H₂O & exempt solvents

1 g/l [*Test Method*: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.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong acids.

10.6 Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|---------------------------------|------------------|
| Phosgene | Not specified. |
| Toxic vapour, gas, particulate. | Not specified. |

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

Eye contact

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

Ingestion

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

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Part B (Base)**Additional Health Effects:****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.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|--|--------------------------------|---------|--|
| Overall product | Inhalation-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 |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Dermal | Rat | LD50 > 1,600 mg/kg |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Ingestion | Rat | LD50 > 1,000 mg/kg |
| Talc | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Talc | Ingestion | | LD50 estimated to be > 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 |
| 12-(Oxiranylmethoxy)-9-octadecenoic acid, 1,2,3-propanetriyl ester | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| 12-(Oxiranylmethoxy)-9-octadecenoic acid, 1,2,3-propanetriyl ester | Ingestion | Rat | LD50 > 5,000 mg/kg |
| Glass, oxide, chemicals | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Glass, oxide, chemicals | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation-Dust/Mist (4 hours) | Rat | LC50 > 0.691 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Rat | LD50 > 5,110 mg/kg |
| Stearic Acid | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Stearic Acid | Ingestion | Rat | LD50 > 5,000 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 |
|--|-----------------------|---------------------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Rabbit | Mild irritant |
| Talc | Rabbit | No significant irritation |
| Limestone | Rabbit | No significant irritation |
| Glass, oxide, chemicals | Professional judgment | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| Stearic Acid | Rabbit | No significant irritation |

3M™ EZ Sand Multi-Purpose Repair Material PNs 05887, 35887, 55887 - Part B (Base)

| | | |
|--------|------------------------|---------------------------|
| Quartz | Professional judgement | No significant irritation |
|--------|------------------------|---------------------------|

Serious Eye Damage/Irritation

| Name | Species | Value |
|--|------------------------|---------------------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Rabbit | Moderate irritant |
| Talc | Rabbit | No significant irritation |
| Limestone | Rabbit | No significant irritation |
| Glass, oxide, chemicals | Professional judgement | No significant irritation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Rabbit | No significant irritation |
| Stearic Acid | Rabbit | No significant irritation |

Skin Sensitisation

| Name | Species | Value |
|--|------------------|----------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Human and animal | Sensitising |
| Siloxanes and Silicones, di-Me, reaction products with silica | Human and animal | Not classified |

Respiratory Sensitisation

| Name | Species | Value |
|--|---------|----------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Human | Not classified |
| Talc | Human | Not classified |

Germ Cell Mutagenicity

| Name | Route | Value |
|--|----------|--|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | In vivo | Not mutagenic |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Talc | In Vitro | Not mutagenic |
| Talc | In vivo | Not mutagenic |
| Glass, oxide, chemicals | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | In Vitro | Not mutagenic |
| Stearic Acid | In Vitro | 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 |
|--|------------|-------------------------|--|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Talc | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| Glass, oxide, chemicals | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Siloxanes and Silicones, di-Me, reaction products with silica | Not | Mouse | Some positive data exist, but the data are not |

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| | | | |
|--------------|------------|------------------|-------------------------------|
| | specified. | | sufficient for classification |
| Stearic Acid | Ingestion | Rat | Not carcinogenic |
| Quartz | Inhalation | Human and animal | Carcinogenic. |

Reproductive Toxicity
Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--|-----------|--|---------|-----------------------|------------------------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Dermal | Not classified for development | Rabbit | NOAEL 300 mg/kg/day | during organogenesis |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | 2 generation |
| 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 |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for female reproduction | Rat | NOAEL 509 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for male reproduction | Rat | NOAEL 497 mg/kg/day | 1 generation |
| Siloxanes and Silicones, di-Me, reaction products with silica | Ingestion | Not classified for development | Rat | NOAEL 1,350 mg/kg/day | during organogenesis |

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

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------|------------|------------------------|--|---------|---------------------|-------------------|
| Limestone | Inhalation | respiratory system | Not classified | Rat | NOAEL 0.812 mg/l | 90 minutes |
| Stearic Acid | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--|-----------|--|----------------|---------|-----------------------|-------------------|
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Dermal | liver | Not classified | Rat | NOAEL 1,000 mg/kg/day | 2 years |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Dermal | nervous system | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | Ingestion | auditory system heart endocrine system hematopoietic system liver eyes | Not classified | Rat | NOAEL 1,000 mg/kg/day | 28 days |

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| | | | | | | |
|---|------------|---|--|-------|---------------------|-----------------------|
| | | kidney and/or bladder | | | | |
| 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 |
| Limestone | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Glass, oxide, chemicals | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |
| Siloxanes and Silicones, di-Me, reaction products with silica | Inhalation | respiratory system silicosis | Not classified | Human | NOAEL Not available | occupational exposure |
| Stearic Acid | Ingestion | blood | Not classified | Rat | NOAEL Not available | 6 weeks |
| Quartz | Inhalation | silicosis | Causes damage to organs through prolonged or repeated exposure | 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 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 (HSNO 9.1A Aquatic toxicity)

Chronic Aquatic Toxicity: Category 2 (HSNO 9.1B Aquatic toxicity)

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|---|------------|---------------|--------------|----------|---------------|-------------|
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Water flea | Estimated | 48 hours | LC50 | 0.95 mg/l |
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Green Algae | Experimental | 72 hours | EC50 | >11 mg/l |
| 4,4'-Isopropylidene | 25068-38-6 | Rainbow trout | Experimental | 96 hours | LC50 | 1.2 mg/l |

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| | | | | | | |
|---|------------|---------------|---|----------|--------------------------|--------------|
| diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | | | | | | |
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Green Algae | Experimental | 72 hours | NOEC | 4.2 mg/l |
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Water flea | Experimental | 21 days | NOEC | 0.3 mg/l |
| Talc | 14807-96-6 | | Data not available or insufficient for classification | | | |
| 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 | Effect Concentration 10% | >100 mg/l |
| 12-(Oxiranylmethoxy)-9-octadecenoic acid, 1,2,3-propanetriyl ester | 74398-71-3 | | Data not available or insufficient for classification | | | |
| Glass, oxide, chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Glass, oxide, chemicals | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Glass, oxide, chemicals | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Glass, oxide, chemicals | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| Siloxanes and Silicones, di-Me, reaction products with silica | Mixture | | Data not available or insufficient for classification | | | |
| Stearic Acid | 57-11-4 | Green algae | Estimated | 72 hours | EC50 | >100 mg/l |
| Stearic Acid | 57-11-4 | Water flea | Estimated | 48 hours | EC50 | >100 mg/l |
| Stearic Acid | 57-11-4 | Green algae | Estimated | 72 hours | NOEC | 100 mg/l |

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| | | | | | | |
|--------------|------------|------------|---|---------|------|----------|
| Stearic Acid | 57-11-4 | Water flea | Estimated | 21 days | NOEC | 100 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 |
|---|------------|-------------------------------|----------|----------------------|-----------------|-----------------------------------|
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Estimated Hydrolysis | | Hydrolytic half-life | <2 days (t 1/2) | Other methods |
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Experimental Biodegradation | 28 days | BOD | 0 % BOD/ThBOD | OECD 301C - MITI test (I) |
| Talc | 14807-96-6 | Data not availbl-insufficient | | | N/A | |
| Limestone | 1317-65-3 | Data not availbl-insufficient | | | N/A | |
| 12-(Oxiranylmethoxy)-9-octadecenoic acid, 1,2,3-propanetriyl ester | 74398-71-3 | Data not availbl-insufficient | | | n/a | |
| Glass, oxide, chemicals | 65997-17-3 | Data not availbl-insufficient | | | N/A | |
| Siloxanes and Silicones, di-Me, reaction products with silica | Mixture | Data not availbl-insufficient | | | N/A | |
| Stearic Acid | 57-11-4 | Experimental Biodegradation | 28 days | CO2 evolution | 89 % weight | OECD 301B - Modified sturm or CO2 |
| Quartz | 14808-60-7 | Data not availbl-insufficient | | | N/A | |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|----------|------------|-----------|----------|------------|-------------|----------|
|----------|------------|-----------|----------|------------|-------------|----------|

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| | | | | | | |
|---|------------|---|---------|------------------------|-----|--|
| 4,4'-Isopropylidene diphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane | 25068-38-6 | Experimental BCF-Carp | 28 days | Bioaccumulation factor | ≤42 | OECD 305E - Bioaccumulation flow-through fish test |
| Talc | 14807-96-6 | 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 |
| 12-(Oxiranylmethoxy)-9-octadecenoic acid, 1,2,3-propanetriyl ester | 74398-71-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Glass, oxide, chemicals | 65997-17-3 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Siloxanes and Silicones, di-Me, reaction products with silica | Mixture | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Stearic Acid | 57-11-4 | Estimated BCF - Other | 28 days | Bioaccumulation factor | 255 | OECD 305E - Bioaccumulation flow-through fish test |
| 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**

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

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. Empty drums/barrels/containers used for transporting and handling hazardous chemicals

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(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.: UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Bisphenol A epichlorohydrin polymer)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Special Instructions: Not restricted, environmentally hazardous substance exception.

Hazchem Code: 3Z

IERG: 47

International Air Transport Association (IATA) - Air Transport

UN No.: UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Bisphenol A epichlorohydrin polymer)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Special Instructions: Not restricted, as per Special Provision A197, environmentally hazardous substance exception.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: UN3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. , (Bisphenol A epichlorohydrin polymer)

Class/Division: 9

Sub Risk: Not applicable.

Packing Group: III

Marine Pollutant: Bisphenol A epichlorohydrin polymer

Special Instructions: Not restricted, as per IMDG code 2.10.2.7, marine pollutant exception.

SECTION 15: Regulatory information

| | |
|----------------------------|---|
| HSNO Approval number | HSR002679 |
| Group standard name | Surface Coatings and Colourants (Toxic [6.7]) Group Standard 2017 |
| 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 (Hazardous Substances) Regulations 2017

| | |
|---------------------------------|--|
| Certified handler | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for all other substances) |

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| | |
|-----------------------|---|
| Secondary containment | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for all other substances) |
| Tracking | Not required |
| Warning signage | 100 L or 100 kg (for a HSNO 9.1A substance); or 1,000 L or 1,000 kg (for a HSNO 8.3A, 9.1B or 9.1C substance); or 10,000 L or 10,000 kg (for a HSNO 6.1D or 9.1D substance) |

SECTION 16: Other information**Revision information:**

Complete document review.

| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 28-6979-0 | Version number: | 2.00 |
| Issue Date: | 01/04/2019 | Supersedes date: | 07/02/2017 |

Key to abbreviations and acronyms

GHS means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

HSNO means Hazardous Substances and New Organisms Act 1996

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