



Safety Data Sheet

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

SECTION 1: Identification

1.1. Product identifier

3M™ Scotchcast™ Plus Enhancing Performance Casting Tape (Standard Colors)

Product Identification Numbers

| | | | | |
|----------------|----------------|----------------|----------------|----------------|
| YP-2060-0001-7 | YP-2060-0002-5 | YP-2060-0003-3 | YP-2060-0004-1 | YP-2060-0006-6 |
| YP-2060-0008-2 | YP-2060-0009-0 | YP-2060-0013-2 | YP-2060-0014-0 | YP-2060-0015-7 |
| YP-2060-0016-5 | YP-2060-0017-3 | YP-2060-0019-9 | YP-2060-0021-5 | YP-2060-0022-3 |
| YP-2060-0026-4 | YP-2060-0027-2 | YP-2060-0028-0 | YP-2060-0029-8 | YP-2060-0030-6 |
| YP-2060-0032-2 | YP-2060-0034-8 | YP-2060-0035-5 | YP-2060-0040-5 | |

1.2. Recommended use and restrictions on use

Recommended use

Immobilisation of upper and lower extremities

For 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

Respiratory Sensitisation: Category 1

Skin Sensitisation: Category 1

Specific Target Organ Toxicity - repeated exposure Category 2

2.2. Label elements

SIGNAL WORD

Danger

Symbols:

Health Hazard |

Pictograms



HAZARD STATEMENTS:

- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure: respiratory system.

PRECAUTIONARY STATEMENTS

Prevention

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P284 Wear respiratory protection.

Response

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P314 Get medical advice/attention if you feel unwell.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal

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

2.3. Other hazards

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

SECTION 3: Composition/information on ingredients

| Ingredient | CAS Nbr | % by Weight |
|--|------------|-------------|
| Glass Yarn | 65997-17-3 | 40 - 70 |
| 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with a-hydro-w-hydroxypoly(oxy-1,2-ethanediyl) | 9048-57-1 | 15 - 40 |
| Methylenediphenyl diisocyanate | 26447-40-5 | 3 - 6 |
| Wollastonite | 13983-17-0 | 1 - 5 |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | 0.1 - 1 |

| | | |
|----------------|---------|-------------|
| Tosyl chloride | 98-59-9 | 0.01 - 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

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

If swallowed

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

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

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

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.

Hydrogen cyanide.

Oxides of nitrogen.

Condition

During combustion.

During combustion.

During combustion.

During combustion.

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

5.4. Hazchem code: Not applicable.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. Clean up residue. 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

For industrial/occupational use only. Not for consumer sale or use. 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. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from strong bases. Store away from oxidising agents. Store away from amines.

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 |
|--|----------------|-----------------|--|---|
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | ACGIH | TWA(inhalable fraction and vapor):2 mg/m3 | A4: Not class. as human carcinogen |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | New Zealand WES | TWA(8 hours):10 mg/m3 | Dermal sensitizer |
| Wollastonite | 13983-17-0 | ACGIH | TWA(inhalable fraction):1 mg/m3 | A4: Not class. as human carcinogen |
| Free isocyanates | 26447-40-5 | New Zealand WES | TWA(as NCO)(8 hours):0.02 mg/m3;STEL(as NCO)(15 minutes):0.07 mg/m3 | Capable of csng resp/skin sens, Dermal sensitiser, Respiratory sensitiser |
| 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/m3 | A4: Not class. as human carcinogen |
| Glass filaments | 65997-17-3 | New Zealand WES | TWA(Respirable fibers)(8 hours):1 f/mL;TWA(as respirable dust)(8 hours):1 f/mL;TWA(as inhalable dust)(8 hours):5 mg/m3 | |

| | | | | |
|------------------------------|------------|-------------------------|--|----------------------------------|
| GLASS WOOL FIBERS | 65997-17-3 | ACGIH | TWA(as fiber):1 fiber/cc | A3: Confirmed animal carcinogen. |
| GLASS YARN | 65997-17-3 | Manufacturer determined | TWA(as non-fibrous, respirable)(8 hours):3 mg/m3;TWA(as non-fibrous, inhalable fraction)(8 hours):10 mg/m3 | 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. |
| Tosyl chloride | 98-59-9 | AIHA | CEIL:5 mg/m3 | |

ACGIH : American Conference of Governmental Industrial Hygienists
 AIHA : American Industrial Hygiene Association
 CMRG : Chemical Manufacturer's Recommended Guidelines
 New Zealand WES : New Zealand Workplace Exposure Standards.
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 ppm: parts per million
 mg/m³: milligrams per cubic metre
 CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection

Gloves providing sufficient protection must be worn while applying the casting tape. E.g. nitrile gloves with a minimum thickness of 0.127 mm (5 mil, 0.005 inch) have proven to provide effective protection. The cast surface should be free of monomer and polymer isocyanate within 30 minutes when proper wetting techniques are used.

Respiratory protection

Results from air sampling during simulated product application show that vapours of methylenediphenyl-diisocyanate as used in the product are not detectable during use in Health Care facility cast rooms. Detection limits were extremely low and far below international safety recommendations for working with isocyanates. Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection. People with bronchial problems or with isocyanate sensitivity may still respond to low isocyanate concentrations. In general it is recommended to use synthetic casting material in rooms with normal general/dilution ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--------------------------------|---|
| Physical state | Solid. |
| Specific Physical Form: | Roll of Tape. (Fiberglass knitted tape impregnated with moisture curable polyurethane prepolymer resin) |
| Colour | Clear White |

| | |
|--|---|
| Odour | Slight Urethane |
| Odour threshold | <i>No data available.</i> |
| pH | <i>No data available.</i> |
| Melting point/Freezing point | <i>No data available.</i> |
| Boiling point/Initial boiling point/Boiling range | <i>No data available.</i> |
| Flash point | No flash point |
| Evaporation rate | Negligible |
| Flammability (solid, gas) | Not classified |
| Flammable Limits(LEL) | <i>No data available.</i> |
| Flammable Limits(UEL) | <i>No data available.</i> |
| Vapor Density and/or Relative Vapor Density | <i>No data available.</i> |
| Density | 1.1 g/ml |
| Relative density | 1.1 [Ref Std: WATER=1] [Details: g/cm3] |
| 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/Kinematic Viscosity | 35,000 - 65,000 mPa-s [@ 23 °C] |
| Volatile organic compounds (VOC) | <i>No data available.</i> |
| Percent volatile as Text | Negligible |
| VOC less H2O & exempt solvents | <i>No data available.</i> |

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

Avoid curing large quantities of material to prevent a premature reaction (exotherm) with production of intense heat and smoke.

Direct sunlight

Sparks and/or flames.

10.5 Incompatible materials

Alcohols.

Amines.

Strong bases.

Strong oxidising agents.

Water

10.6 Hazardous decomposition products

Substance

None known.

Condition

Refer to Section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. 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

Contact with the eyes during product use is not expected to result in significant irritation.

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:

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.

Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation reaction to other isocyanates. Results from air sampling for simulated dry and wet product application show that vapours of methylenediphenyl-diisocyanate as used in the product are not detectable during use. Detection limits were extremely low and far below international safety recommendations for working with isocyanates. People with bronchial problems or with isocyanate sensitivity may still respond to low isocyanate concentrations.

Direct contact with the cast surface without the use of gloves should be avoided until curing has completed. The cast surface should be free of monomer and polymer isocyanate within 30 minutes when proper wetting techniques are used.

Toxicological Data

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

Acute Toxicity

| Name | Route | Species | Value |
|-----------------|-----------|---------|---|
| Overall product | Ingestion | | No data available; calculated ATE >2,000 - =5,000 mg/kg |
| Glass Yarn | Dermal | | LD50 estimated to be > 5,000 mg/kg |

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|--|--------------------------------|--------|--|
| Glass Yarn | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with a-hydro-w-hydroxypoly(oxy-1,2-ethanediyl) | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with a-hydro-w-hydroxypoly(oxy-1,2-ethanediyl) | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Methylenediphenyl diisocyanate | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Methylenediphenyl diisocyanate | Inhalation-Dust/Mist (4 hours) | Rat | LC50 0.368 mg/l |
| Methylenediphenyl diisocyanate | Ingestion | Rat | LD50 31,600 mg/kg |
| Wollastonite | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| Wollastonite | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Dermal | Rat | LD50 > 2,000 mg/kg |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Rat | LD50 > 2,930 mg/kg |
| Tosyl chloride | Dermal | Rabbit | LD50 estimated to be > 5,000 mg/kg |
| Tosyl chloride | Ingestion | Rat | LD50 > 5,000 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------------|-------------------------|---------------------------|
| Glass Yarn | Professional judgement | No significant irritation |
| Methylenediphenyl diisocyanate | official classification | Irritant |
| 2,6-Di-tert-butyl-p-cresol | Human and animal | Minimal irritation |
| Tosyl chloride | Rabbit | Irritant |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------------|-------------------------|---------------------------|
| Glass Yarn | Professional judgement | No significant irritation |
| Methylenediphenyl diisocyanate | official classification | Severe irritant |
| 2,6-Di-tert-butyl-p-cresol | Rabbit | Mild irritant |
| Tosyl chloride | Rabbit | Corrosive |

Sensitisation:
Skin Sensitisation

| Name | Species | Value |
|--------------------------------|-------------------------|----------------|
| Methylenediphenyl diisocyanate | official classification | Sensitising |
| 2,6-Di-tert-butyl-p-cresol | Human | Not classified |
| Tosyl chloride | Mouse | Sensitising |

Respiratory Sensitisation

| Name | Species | Value |
|--------------------------------|---------|-------------|
| Methylenediphenyl diisocyanate | Human | Sensitising |

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------------------|----------|--|
| Glass Yarn | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methylenediphenyl diisocyanate | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Wollastonite | In Vitro | Not mutagenic |
| 2,6-Di-tert-butyl-p-cresol | In Vitro | Not mutagenic |
| 2,6-Di-tert-butyl-p-cresol | In vivo | Not mutagenic |
| Tosyl chloride | In vivo | Not mutagenic |
| Tosyl chloride | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------------------|------------|-------------------------|--|
| Glass Yarn | Inhalation | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Methylenediphenyl diisocyanate | Inhalation | Rat | Some positive data exist, but the data are not sufficient for classification |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |

Reproductive Toxicity

Reproductive and/or Developmental Effects

| Name | Route | Value | Species | Test result | Exposure Duration |
|--------------------------------|------------|--|---------|---------------------|----------------------------|
| Methylenediphenyl diisocyanate | Inhalation | Not classified for development | Rat | NOAEL 0.004 mg/l | during organogenesis |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |
| Tosyl chloride | Ingestion | Not classified for female reproduction | Rat | NOAEL 750 mg/kg/day | prematuring into lactation |
| Tosyl chloride | Ingestion | Not classified for male reproduction | Rat | NOAEL 750 mg/kg/day | 34 days |
| Tosyl chloride | Ingestion | Not classified for development | Rat | NOAEL 750 mg/kg/day | prematuring into lactation |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|--------------------------------|------------|------------------------|--|-------------------------|---------------------|-------------------|
| Methylenediphenyl diisocyanate | Inhalation | respiratory irritation | May cause respiratory irritation | official classification | NOAEL Not available | |
| Tosyl chloride | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | similar health hazards | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|------------|------------|--------------------|----------------|---------|---------------------|-----------------------|
| Glass Yarn | Inhalation | respiratory system | Not classified | Human | NOAEL not available | occupational exposure |

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| Methylenediphenyl diisocyanate | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.004 mg/l | 13 weeks |
| Wollastonite | Inhalation | respiratory system | Not classified | Human | NOAEL Not available | occupational exposure |
| Wollastonite | Inhalation | pulmonary fibrosis | Not classified | Human and animal | NOAEL Not available | |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation |
| 2,6-Di-tert-butyl-p-cresol | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks |
| Tosyl chloride | Ingestion | gastrointestinal tract | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 750 mg/kg/day | 34 days |
| Tosyl chloride | Ingestion | heart endocrine system hematopoietic system nervous system kidney and/or bladder liver immune system respiratory system | Not classified | Rat | NOAEL 750 mg/kg/day | 34 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

No product test data available.

| Material | CAS Number | Organism | Type | Exposure | Test endpoint | Test result |
|--|------------|-------------|--------------|----------|---------------|--------------|
| Glass Yarn | 65997-17-3 | Green algae | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Glass Yarn | 65997-17-3 | Water flea | Experimental | 72 hours | EC50 | >1,000 mg/l |
| Glass Yarn | 65997-17-3 | Zebra Fish | Experimental | 96 hours | LC50 | >1,000 mg/l |
| Glass Yarn | 65997-17-3 | Green algae | Experimental | 72 hours | NOEC | >=1,000 mg/l |
| 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction | 9048-57-1 | Water flea | Estimated | 24 hours | EC50 | >100 mg/l |

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| products with a-hydro-w- hydroxypoly(o xy-1,2- ethanediyl) | | | | | | |
| 4,4'- Methylenediph enyl diisocyanate, oligomeric reaction products with a-hydro-w- hydroxypoly(o xy-1,2- ethanediyl) | 9048-57-1 | Zebra Fish | Estimated | 24 hours | LC50 | >100 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Green algae | Analogous Compound | 72 hours | EC50 | >1,640 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Water flea | Analogous Compound | 24 hours | EC50 | >1,000 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Zebra Fish | Analogous Compound | 96 hours | LC50 | >1,000 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Green algae | Analogous Compound | 72 hours | NOEC | 1,640 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Water flea | Analogous Compound | 21 days | NOEC | 10 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Activated sludge | Analogous Compound | 3 hours | EC50 | >100 mg/l |
| Methylenediph enyl diisocyanate | 26447-40-5 | Lettuce | Analogous Compound | 17 days | NOEC | 1,000 mg/kg (Dry Weight) |
| Methylenediph enyl diisocyanate | 26447-40-5 | Redworm | Analogous Compound | 14 days | LC50 | >1,000 mg/kg (Dry Weight) |
| Wollastonite | 13983-17-0 | N/A | Data not available or insufficient for classification | N/A | N/A | N/A |
| 2,6-Di-tert- butyl-p-cresol | 128-37-0 | Activated sludge | Experimental | 3 hours | EC50 | >10,000 mg/l |
| 2,6-Di-tert- butyl-p-cresol | 128-37-0 | Green algae | Experimental | 72 hours | EC50 | >0.4 mg/l |
| 2,6-Di-tert- butyl-p-cresol | 128-37-0 | Water flea | Experimental | 48 hours | EC50 | 0.48 mg/l |
| 2,6-Di-tert- butyl-p-cresol | 128-37-0 | Zebra Fish | Experimental | 96 hours | No tox obs at lmt of water sol | >100 mg/l |
| 2,6-Di-tert- butyl-p-cresol | 128-37-0 | Green algae | Experimental | 72 hours | EC10 | 0.4 mg/l |
| 2,6-Di-tert- | 128-37-0 | Medaka | Experimental | 42 days | NOEC | 0.053 mg/l |

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| butyl-p-cresol | | | | | | |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Water flea | Experimental | 21 days | NOEC | 0.023 mg/l |
| Tosyl chloride | 98-59-9 | Activated sludge | Estimated | 3 hours | EC10 | 240 mg/l |
| Tosyl chloride | 98-59-9 | Green algae | Experimental | 72 hours | EC50 | >100 mg/l |
| Tosyl chloride | 98-59-9 | Medaka | Experimental | 96 hours | LC50 | >100 mg/l |
| Tosyl chloride | 98-59-9 | Water flea | Experimental | 48 hours | EC50 | >334 mg/l |
| Tosyl chloride | 98-59-9 | Green algae | Experimental | 72 hours | NOEC | 2.6 mg/l |

12.2. Persistence and degradability

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|--|------------|--|----------|-----------------------------|---------------------|--------------------------------|
| Glass Yarn | 65997-17-3 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with a-hydro-w-hydroxypoly(oxy-1,2-ethanediyl) | 9048-57-1 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Methylenediphenyl diisocyanate | 26447-40-5 | Analogous Compound Biodegradation | 28 days | BOD | 0 %BOD/ThOD | OECD 301C - MITI test (I) |
| Methylenediphenyl diisocyanate | 26447-40-5 | Analogous Compound Aquatic Inherent Biodegrad. | 28 days | BOD | 0 %BOD/ThOD | OECD 302C - Modified MITI (II) |
| Methylenediphenyl diisocyanate | 26447-40-5 | Analogous Compound Hydrolysis | | Hydrolytic half-life (pH 7) | <2 hours (t 1/2) | |
| Wollastonite | 13983-17-0 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Data not availbl-insufficient | N/A | N/A | N/A | N/A |
| Tosyl chloride | 98-59-9 | Experimental Biodegradation | 28 days | BOD | 60 %BOD/ThOD | OECD 301D - Closed bottle test |
| Tosyl chloride | 98-59-9 | Experimental Hydrolysis | | Hydrolytic half-life | 2.2 minutes (t 1/2) | |

12.3 : Bioaccumulative potential

| Material | CAS Number | Test type | Duration | Study Type | Test result | Protocol |
|------------|------------|-----------------------|----------|------------|-------------|----------|
| Glass Yarn | 65997-17-3 | Data not available or | N/A | N/A | N/A | N/A |

| | | | | | | |
|---|------------|---|---------|------------------------|------|------------------------------|
| | | insufficient for classification | | | | |
| 4,4'-Methylenediphenyl diisocyanate, oligomeric reaction products with a-hydroxy-poly(oxy-1,2-ethanediyl) | 9048-57-1 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| Methylenediphenyl diisocyanate | 26447-40-5 | Analogous Compound BCF - Fish | 28 days | Bioaccumulation factor | 200 | OECD305-Bioconcentration |
| Methylenediphenyl diisocyanate | 26447-40-5 | Analogous Compound Bioconcentration | | Log Kow | 4.51 | OECD 117 log Kow HPLC method |
| Wollastonite | 13983-17-0 | Data not available or insufficient for classification | N/A | N/A | N/A | N/A |
| 2,6-Di-tert-butyl-p-cresol | 128-37-0 | Experimental BCF - Fish | 56 days | Bioaccumulation factor | 1277 | OECD305-Bioconcentration |
| Tosyl chloride | 98-59-9 | Estimated Bioconcentration | | Log Kow | 0.93 | |

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.

During cleanup or disposal of open, uncured product, gloves providing sufficient protection must be worn. E.g. nitrile gloves with a minimum thickness of 0.127 mm (5 mil, 0.005 inch) have proven to provide effective protection. Additionally the following skin protection may be needed: laboratory coat or long-sleeve protective gauntlets. 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. If no other disposal options are available, waste product that has been completely cured or polymerized may be placed in a landfill properly designed for industrial waste. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

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

SECTION 14: Transport Information

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

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Hazchem Code: Not applicable.

IERG: Not applicable.

International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable.

Proper Shipping Name: Not applicable.

Class/Division: Not applicable.

Sub Risk: Not applicable.

Packing Group: Not applicable.

Marine Pollutant: Not applicable.

SECTION 15: Regulatory information

| | |
|----------------------------|---|
| HSNO Approval number | HSR002552 |
| Group standard name | Cosmetic Products 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 | Not required |
| Hazardous atmosphere zone | Not required |
| Fire extinguishers | Not required |
| Emergency response plan | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Carcinogenicity Category 2, Specific target organ toxicity Category 1, Skin corrosion Category 1C, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances) |
| Secondary containment | 100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment |

Tracking
Warning signage

Category 3 substances); or 10 000 L or 10 000 kg (for Carcinogenicity Category 2, Specific target organ toxicity Category 1, Skin corrosion Category 1C, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)
Not required
100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Skin corrosion Category 1C, Serious eye damage Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Acute toxicity Category 4 or Hazardous to the aquatic environment Category 4 substances)

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

Complete document review.

| | | | |
|------------------------|------------|-------------------------|------------|
| Document group: | 19-0314-5 | Version number: | 4.00 |
| Issue Date: | 03/07/2023 | Supersedes date: | 23/01/2019 |

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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