

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Endurathane Part A Type 4**
 Product Use: Component of a Polyurethane System
 Restriction of Use: Refer to Section 15

New Zealand Supplier: Realcold Ltd
 Address: 9 Prescott Street
 Penrose, Auckland
 Telephone: 09 526 5700
 Fax Number: 09 526 5721
Emergency Telephone: 09 526 5700
0800 766 764 (National Poison Centre)

Manufacturer: Polymer Group Ltd
 Address: 62 Stonedon Drive, East Tamaki
 Auckland, NZ

Date of SDS Preparation: 14 March 2017 Ver 2

Section 2. Hazards Identification

The manufacturer has stated that this substance is hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

EPA Approval No: Polymers (Toxic [6.7]) – HSR002646

Pictograms



Toxic/Irritant



Chronic

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Category 4
6.1D (dermal)	H312	Harmful in contact with skin.	Category 4
6.1D (inhalation)	H332	Harmful if inhaled.	Category 4
6.3A	H315	Causes skin irritation.	Category 2
6.4A	H319	Causes serious eye irritation.	Category 2A
6.5A	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	Category 1
6.7B	H351	Suspected of causing cancer.	Category 2
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	Category 2

Prevention Code	Prevention Statement
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P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe fume or vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P362	Take off contaminated clothing and wash before re-use.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P304 + P341	IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
4,4'-Methylenediphenyl diisocyanate	101-68-8	>60
Diphenylmethane diisocyanate, Homopolymer	39310-05-9	10 - <30
Diphenylmethane-2,4'-diisocyanate	5873-54-1	<10

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.

If on Skin Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention. Clean shoes thoroughly before re-use.

If Swallowed

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

If Inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Due to reaction with water producing CO ₂ gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated.
Suitable Extinguishing media	Foam, CO ₂ or dry powder.
Precautions for firefighters and special protective clothing	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Steps to be taken in case material is released or spilled: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large Spill

If the product is in its solid form: Spilled MDI flakes should be picked up carefully. The area should be vacuum cleaned to remove remaining dust particles completely. If the product is in its liquid form: Absorb spillages onto sand, earth or any suitable absorbent material. Leave to react for at least 30 minutes. Do not absorb onto sawdust or other combustible materials. Shovel into open-top drums for further decontamination. Wash the spillage area with water. Test atmosphere for MDI vapour. Neutralise small spillages with decontaminant. Wash the spillage area with water. Test atmosphere for MDI vapour. Neutralise small spillages with

decontaminant. Remove and dispose of residues. The compositions of liquid decontaminants are given in Section 16. See also brochure PU 193-1 (see section 16).

Small Spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Waste Disposal Method: Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe fume or vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective clothing.
- Use personal protective equipment as required.
- In case of inadequate ventilation wear respiratory protection.

Precautions for Storage:

- Special Sensitivity (Heat, Light, Moisture): Store in original container protected from direct sunlight in a dry, cool and well-ventilated away from incompatible materials and food and drink
- Store locked up and away from children.
- Keep container tightly closed and sealed until ready for use.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Storage Temperature (Min/Max): 21°C – 35°C

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
4,4'-Methylenediethylphenyl diisocyanate		0.02		0.07
Diphenylmethane-2,4'-diisocyanate		0.02		0.07

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal Protection Equipment

Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection
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	should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. Refer to Australian/New Zealand Standard AS/NZS 1337:1992 for guidance on selection and use of protective eyewear.
Hands and Skin	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Refer to Australian/New Zealand Standard AS/NZS 2161.1:2000 for guidance on selection and use of protective gloves.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Refer to Australian/New Zealand Standard AS/NZS 1715 and AS/NZS 1716 for guidance on selection and use of respiratory devices.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Odour	Not available
Odour Threshold	Not available
pH	Not applicable
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	110°C (cup closed)
Flammability	Not applicable
Upper and Lower Exposure Limits	Not available
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Relative Density	Not applicable
Solubilities	Insoluble in water. Soluble in many organic solvents.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable at room temperature. Reaction with water (moisture) produces CO ₂ gas. Exothermic reaction with materials containing active hydrogen groups. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. MDI is insoluble with and heavier than water and sinks to the bottom but reacts slowly at the interface. A solid water-insoluble layer of polyurea is formed at the interface by liberating carbon dioxide gas.
Conditions to Avoid	Extreme temperatures.
Incompatible Materials	Water, alcohols, amines, bases and acids.

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, nitrogen oxides, hydrocarbons, HCN.

Section 11 Toxicological Information**Acute Effects:**

Swallowed	Harmful if swallowed.
Dermal	Harmful if in contact with the skin.
Inhalation	Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Eye	Causes severe irritation to eyes.
Skin	Causes skin irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

This product is not known to be hazardous to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Dispose of empty canisters through appropriate waste disposal facility. Recycle wherever possible.

Bury residue in an authorised landfill.

Recycle containers if possible. If not possible, dispose of in an authorised landfill. Containers may still present a chemical hazard/danger when empty.

If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers to prevent re-use and bury at an authorised landfill. Contact appropriate Waste Management Company for guidance and disposal options in your area.

Section 14 Transport Information

This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

EPA Approval Code: Polymers (Toxic [6.7]) – HSR002646

HSNO Classification: 6.1D(oral, dermal, inhalation), 6.3A, 6.4A, 6.5A/B, 6.9B

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	10000L(6.1D)
Emergency Response Plan	1000L (6.1D)
Restriction of Use	None

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.

Disclaimer

This document has been issued by TCC (NZ) Ltd and serves as their Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the New Zealand distributor, if further information is required.

Issue Date: 18 June 2015 Review Date: 18 June 2020

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Endurathane 3345M Part B**
Product Use: Component of a Polyurethane System
Restriction of Use: Refer to Section 15

Product Name: Enduranthane Part A Type 4
Date of SDS: 18 June 2015

Issued by: Realcold Ltd
Tel: 64 9 526 5700

New Zealand Supplier: Realcold Ltd
 Address: 9 Prescott Street
 Penrose, Auckland
 Telephone: 09 526 5700
 Fax Number: 09 526 5721
Emergency Telephone: 09 526 5700
0800 766 764 (National Poison Centre)

Manufacturer: Polymer Group Ltd
 Address: 62 Stonedon Drive, East Tamaki
 Auckland, NZ

Date of SDS Preparation: 18 June 2015

Section 2. Hazards Identification

The manufacturer has stated that this substance is NOT hazardous according to the *HSNO (Minimum Degrees of Hazard) Regulations 2001*

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Other ingredients determine not to be hazardous	To 100	-

Section 4. First Aid Measures

Routes of Exposure:

- If in Eyes Rinse cautiously with water for several minutes. Seek immediate medical attention if needed.
- If on Skin Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.
- If Swallowed Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
- If Inhaled Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Decomposition products may include the following materials: Carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, halogenated compounds.
Suitable Extinguishing media	Use dry chemical, CO ₂ , water spray (fog) or foam.
Precautions for firefighters and	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in

special protective clothing	positive pressure mode. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. In a fire or if heated, a pressure increase will occur and the container may burst.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

Steps to be taken in case material is released or spilled: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large Spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material eg sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Small Spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Waste Disposal Method: Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Wear protective clothing.

Precautions for Storage:

- Special Sensitivity (Heat, Light, Moisture): Store in original container protected from direct sunlight in a dry, cool and well-ventilated away from incompatible materials and food and drink
- Keep container tightly closed and sealed until ready for use.
- Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
- Storage Temperature (Min/Max): Store between 10-25°C.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m³	STEL ppm mg/m³
No ingredients have exposure limits		

Workplace Exposure Standard – Time Weighted Average (WES-TWA). *The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure.* Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). *The 15-minute average exposure standard.* Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply.

Engineering Controls

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal Protection Equipment

Eyes	Wear goggles.
Hands and Skin	Wear chemical resistant gloves.
Respiratory	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9 Physical and Chemical Properties

Appearance	Yellow Liquid
Odour	Not available
Odour Threshold	Not available
pH	Not applicable
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	>100°C (cup closed)
Flammability	Not applicable
Upper and Lower Exposure Limits	Not available
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Specific Gravity	1.14
Solubilities	Not available.
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	The product is stable.
Conditions to Avoid	None known.
Incompatible Materials	Reactive or incompatible with the following materials: oxidising materials, metals, acids and alkalis.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable.
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.

Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Section 12. Ecotoxicological Information

This product is not known to be hazardous to the environment.

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Dispose of empty canisters through appropriate waste disposal facility. Recycle wherever possible.

Bury residue in an authorised landfill.

Recycle containers if possible. If not possible, dispose of in an authorised landfill. Containers may still present a chemical hazard/danger when empty.

If container cannot be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers to prevent re-use and bury at an authorised landfill. Contact appropriate Waste Management Company for guidance and disposal options in your area.

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This product is not classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

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Glossary

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EPA	Environmental Protection Authority
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LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
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Product Name: Enduranthane Part A Type 4
Date of SDS: 18 June 2015

Issued by: Realcold Ltd
Tel: 64 9 526 5700

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Issue Date: 18 June 2015 Review Date: 18 June 2020