



## Safety Data Sheet

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Int. Spec. HCQ-03 Part A

SDS No. : 298798

V001.1

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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** Int. Spec. HCQ-03 Part A

**Intended use:** Part A of 2-K-Epoxy Adhesive

**Supplier:**  
Henkel New Zealand Ltd  
2 Allens Rd  
Auckland, 2013  
New Zealand  
Phone: +64 (9) 272-6710

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Skin irritation	Category 2
Serious eye irritation	Category 2A
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 2
Chronic hazards to the aquatic environment	Category 2

#### Hazard pictogram:



#### Signal word:

Warning

**Hazard statement(s):** H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:** P261 Avoid breathing mist/vapours.  
P264 Wash hands thoroughly after handling.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, eye protection, and face protection.

**Response:** P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**Disposal:** P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**General chemical description:** Mixture  
Epoxy resin

**Type of preparation:** Reaction resin

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
reaction product: bisphenol-A-(epichlorhydrin)	25068-38-6	90- <= 100 %

### SECTION 4 FIRST AID MEASURES

**Ingestion:** Do not induce vomiting.  
Have victim rinse mouth thoroughly with water.  
Seek medical advice.

**Skin:** Immediately flush skin with plenty of water (using soap, if available).  
Seek medical advice.

**Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical attention from a specialist.

**Inhalation:** Move to fresh air.  
Keep warm and in a quiet place.  
If adverse health effects develop seek medical attention.

**First Aid facilities:** Eye wash and safety shower  
Normal washroom facilities

**Medical attention and special treatment:** Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

- Suitable extinguishing media:** Carbon dioxide, foam, powder  
Fine water spray
- Improper extinguishing media:** Water spray jet
- Decomposition products in case of fire:** Thermal decomposition can lead to release of irritating gases and vapors.  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.
- Special protective equipment for fire-fighters:** Wear protective equipment.  
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
- Additional fire fighting advice:** In case of fire, keep containers cool with water spray.  
Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions:** Danger of slipping on spilled product.  
Wear impervious gloves and chemical splash goggles.  
Ensure adequate ventilation.  
Avoid skin and eye contact.
- Environmental precautions:** Do not empty into drains / surface water / ground water.
- Clean-up methods:** Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.  
Dispose of contaminated material as waste according to Section 13.

### SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** Gloves and safety glasses should be worn  
Ensure that workrooms are adequately ventilated.  
Avoid skin and eye contact.
- Conditions for safe storage:** Keep container tightly sealed.  
Store in a cool, dry place.  
Keep away from heat and direct sunlight.

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace exposure standards:**

None

**Biological Exposure Indices:**

None

<b>Engineering controls:</b>	Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.
<b>Eye protection:</b>	Tightly fitting safety goggles
<b>Skin protection:</b>	Use of protective coveralls and long sleeves is recommended. Nitrile rubber gloves should be worn. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
<b>Respiratory protection:</b>	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	transparent, slightly yellowish viscous
<b>Odor:</b>	mild
<b>Melting point / freezing point:</b>	Not applicable, Product is a liquid
<b>Boiling point:</b>	> 260 °C (> 500 °F)
<b>Flash point:</b>	> 150 °C (> 302 °F)
<b>Vapor pressure:</b> (no method; 180 °C (356 °F))	< 0.13 kPa
<b>Density:</b>	1.10 - 1.18 g/cm <sup>3</sup>
<b>Solubility in water:</b>	low solubility (23 °C)
<b>Viscosity (dynamic):</b> (; 30 °C (86 °F); Method: no method)	6,000 - 8,000 cp
<b>VOC content (2004/42/EC)</b>	0.00 % (VOCV 814.018 VOC regulation CH)

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Avoid heating. Keep away from open flames, hot surfaces and sources of ignition. Store away from incompatible materials.
<b>Incompatible materials:</b>	Acids. Amines. Bases. Oxidizing agents.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors.  Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:****Ingestion:**

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin:**

This product is irritating to the skin.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

May cause sensitization by skin contact.

**Eyes:**

Causes serious eye irritation.

**Inhalation:**

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	LD50 LD50	> 2,000 mg/kg > 2,000 mg/kg	oral  dermal		rat rat	OECD Guideline 420 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	not irritating	4 h	rabbit	not specified

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	sensitising	Mouse local lymphnod e assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 472 (Genetic Toxicology: Escherichia coli, Reverse Mutation Assay)
reaction product: bisphenol-A- (epichlorhydrin) 25068-38-6	negative	oral: gavage		mouse	not specified

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	NOAEL=50 mg/kg	oral: gavage	14 wdaily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:** Do not empty into drains / surface water / ground water.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	LC50	1.75 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	EC50	1.7 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	EC50	> 11 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	NOEC	4.2 mg/l	Algae	72 h	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition Test)
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	IC50	> 100 mg/l	Bacteria	3 h	activated sludge, industrial	other guideline:

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
reaction product: bisphenol-A-(epichlorhydrin) 25068-38-6	3.242				25 °C	EU Method A.8 (Partition Coefficient)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** Dispose of in accordance with local and national regulations.

**Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**SECTION 14. TRANSPORT INFORMATION**

**Dangerous Goods information:**

**Land Transport:**

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

**Land Transport:**

UN no.: 3082  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)  
 Class or division: 9  
 Packing group: III

**Marine transport IMDG:**

UN no.: 3082  
 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)  
 Class or division: 9  
 Packing group: III  
 EmS: F-A ,S-F  
 Seawater pollutant: Marine pollutant

**Air transport IATA:**

UN no.: 3082  
 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)  
 Class or division: 9  
 Packing group: III  
 Packing instructions (passenger): 964  
 Packing instructions (cargo): 964

**Further information for transport:**

The transport classifications in this section apply generally to packed and bulk goods alike. For containers with a net volume of no more than 5 L for liquid substances or a net mass of no more than 5 kg for solid substances per individual or inner package, the exemptions SP 375 (ADR), A197 (IATA), 2.10.2.7 (IMDG) may be applied, which can result in a deviation from the transport classification for packed goods.

<b>SECTION 15. REGULATORY INFORMATION</b>
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**New Zealand regulatory information:**

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

**HSNO Approval Number:** HSR002670

**Site and Storage:** Refer to the site and storage requirements for this Group Standard.  
Refer to the HSNO controls for approved hazardous substances.

**NZIoC:** Compliant for NZIOC

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<b>SECTION 16. OTHER INFORMATION</b>	
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<b>Abbreviations/acronyms:</b>	HSNO - Hazardous Substances and New Organisms GHS: Globally Harmonized System CAS: Chemical Abstracts Service LD 50: Lethal Dose 50% LC 50: Lethal Concentration 50% IMDG: International Maritime Dangerous Goods code IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
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<b>Reason for issue:</b>	Reviewed SDS. Reissued with new date. involved chapters: 1 - 16
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<b>Date of previous issue:</b>	30.05.2017
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## Safety Data Sheet

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Int. Spec. HCQ-03 Part B

SDS No. : 298799

V001.1

Revision: 19.07.2022

printing date: 12.06.2023

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product name:** Int. Spec. HCQ-03 Part B

**Intended use:** 2-Component epoxy adhesive  
2-Component epoxy adhesive

**Supplier:** Henkel New Zealand Ltd  
2 Allens Rd  
Auckland, 2013  
New Zealand  
Phone: +64 (9) 272-6710

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).  
Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

#### Hazard pictogram:



**Signal word:** Danger

**Hazard statement(s):** H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:** P261 Avoid breathing mist/vapours.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves, eye protection, and face protection.

**Response:** P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. Get immediate 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.

**Disposal:** P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

**General chemical description:** Mixture  
Polymercaptan  
Amines

**Type of preparation:** Hardener

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether	72244-98-5	70- < 90 %
1,3-bis[3-(dimethylamino)propyl]urea	52338-87-1	10- < 16.5 %

### SECTION 4 FIRST AID MEASURES

**Ingestion:** Do not induce vomiting.  
Have victim rinse mouth thoroughly with water.  
Seek medical advice.

**Skin:** Immediately flush skin with plenty of water (using soap, if available).  
Seek medical attention from a specialist.

**Eyes:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Seek medical attention from a specialist.

**Inhalation:** Move to fresh air.  
Keep warm and in a quiet place.  
If adverse health effects develop seek medical attention.

**First Aid facilities:** Eye wash and safety shower  
Normal washroom facilities

**Medical attention and special treatment:** Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media:** Carbon dioxide, foam, powder  
Fine water spray

**Improper extinguishing media:** Water spray jet

**Decomposition products in case of fire:** Thermal decomposition can lead to release of irritating gases and vapors.  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.

**Special protective equipment for fire-fighters:** Wear protective equipment.  
Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).

**Additional fire fighting advice:** In case of fire, keep containers cool with water spray.  
Collect contaminated fire fighting water separately. It must not enter drains.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Danger of slipping on spilled product.  
Ensure adequate ventilation.  
Avoid skin and eye contact.  
Wear impervious gloves and chemical splash goggles.

**Environmental precautions:** Do not empty into drains / surface water / ground water.

**Clean-up methods:** Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.  
Dispose of contaminated material as waste according to Section 13.

### SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** Gloves and safety glasses should be worn  
Avoid skin and eye contact.  
Ensure that workrooms are adequately ventilated.  
Avoid breathing vapors or mists of this product.

**Conditions for safe storage:** Keep container tightly sealed.  
Store in a cool, dry, well-ventilated area.  
Protect from direct sunlight.  
Temperatures between + 5 °C and + 35 °C

### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Workplace exposure standards:**

None

**Biological Exposure Indices:**

None

<b>Engineering controls:</b>	Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.
<b>Eye protection:</b>	For eye protection, use tightly fitted safety goggles and a face-shield
<b>Skin protection:</b>	Use of protective coveralls and long sleeves is recommended. Nitrile rubber gloves should be worn. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.
<b>Respiratory protection:</b>	If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	transparent, slightly yellowish viscous
<b>Odor:</b>	Slight
<b>pH:</b>	Not applicable, Product is non-soluble (in water).
<b>Melting point / freezing point:</b>	Not applicable, Product is a liquid
<b>Flash point:</b> (no method)	> 257 °C (> 494.6 °F)
<b>Density:</b>	1.00 - 1.11 g/ml
<b>Solubility in water:</b>	Dispersible (23 °C)
<b>Viscosity (dynamic):</b> (; 30 °C (86 °F); Method: no method)	10,000 - 15,000 cp
<b>VOC content (2004/42/EC)</b>	0.0 % (VOCV 814.018 VOC regulation CH)

## SECTION 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of temperature and pressure.
<b>Conditions to avoid:</b>	Heat, flames, sparks and other sources of ignition. Excessive heat. Store away from incompatible materials.
<b>Incompatible materials:</b>	This product may react with strong acids or oxidizing agents. Epoxides.
<b>Hazardous decomposition products:</b>	Thermal decomposition can lead to release of irritating gases and vapors.  Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Health Effects:****Ingestion:**

Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin:**

Causes skin irritation.

Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Eyes:**

Causes serious eye irritation.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Inhalation:**

Inhalation of vapors or mist can cause severe irritation, tissue and scarring of the respiratory tract.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	LD50 LD50	2,600 mg/kg > 10,200 mg/kg	oral  dermal		rat rabbit	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity) equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	LD50 LD50	5,126 mg/kg > 2,050 mg/kg	oral  dermal		rat rat	not specified other guideline:

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	Category 1 (irreversible effects on the eye)		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	negative			mouse	equivalent or similar to OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	NOAEL=> 500 mg/kg	oral: gavage	28 ddaily	rat	OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:** Do not empty into drains / surface water / ground water.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	LC50	87 mg/l	Fish	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	EC50	12 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	EC50	> 733 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	NOEC	338 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	EC50	> 1,000 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	LC50	> 1,000 mg/l	Fish	96 h	Oryzias latipes	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	EC50	93 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	EC50	> 100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	EC10	> 100 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	EC50	820 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
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Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	not readily biodegradable.	aerobic	5 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	not readily biodegradable.	aerobic	1 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopropyl ether 72244-98-5	1.2				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1		< 2.3	28 d	Cyprinus carpio	25 °C	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	0.817				20 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** Dispose of as hazardous waste in compliance with local and national regulations. Do not allow product to enter sewer or waterways.

**Disposal for uncleaned package:** Dispose of as hazardous waste in compliance with local and national regulations.

**SECTION 14. TRANSPORT INFORMATION****Dangerous Goods information:****Land Transport:**

Not classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

**Marine transport IMDG:**

Not dangerous goods

**Air transport IATA:**

UN no.: 3334  
 Proper shipping name: Aviation regulated liquid, n.o.s. (Mercaptan polymer)  
 Class or division: 9  
 Packing group: III  
 Packing instructions (passenger): 964  
 Packing instructions (cargo): 964

**SECTION 15. REGULATORY INFORMATION****New Zealand regulatory information:**

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).



**HSNO Approval Number:** HSR002670

**NZIoC:** Compliant for NZIOC

## SECTION 16. OTHER INFORMATION

**Abbreviations/acronyms:** HSNO - Hazardous Substances and New Organisms  
GHS: Globally Harmonized System  
CAS: Chemical Abstracts Service  
LD 50: Lethal Dose 50%  
LC 50: Lethal Concentration 50%  
IMDG: International Maritime Dangerous Goods code  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

**Reason for issue:** Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

**Date of previous issue:** 30.05.2017

**Disclaimer:**

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.

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