



Safety Data Sheet

Int. Spec. HCQ-03 Part B

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SDS No. : 298799

V001.2

Date of issue: 15.09.2020

Section 1. Identification of the substance/preparation and of the company/undertaking

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

Intended use: 2-Component epoxy adhesive

Supplier:

Henkel Australia Pty Ltd
135-141 Canterbury Road
Kilsyth, Victoria, 3137
Australia

Phone: +61 (3) 9724 6444

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER: 1800 032 379

Section 2. Hazards identification

Classification of the substance or mixture

Hazardous according to the criteria of Safe Work Australia.

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 dust/fume/gas/mist/vapours/spray. 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 do. Continue rinsing. Get immediate medical advice/attention. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse.
Disposal:	P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

Dangerous Goods information:

Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

Section 3. Composition / information on ingredients**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
1,3-bis[3-(dimethylamino)propyl]urea	52338-87-1	10- < 30 %
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptop	72244-98-5	<= 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 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

National exposure standards:

None

Engineering controls:	Use general ventilation and use local exhaust, where possible, in confined or enclosed spaces.
Eye protection:	For eye protection, use tightly fitted safety goggles and a face-shield
Skin protection:	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.
Respiratory protection:	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

Appearance:	transparent, slightly yellowish viscous
Odor:	Slight
Flash point: (no method)	> 257 °C (> 494.6 °F)
Density:	1.00 - 1.11 g/cm ³
Solubility in water:	Dispersible (23 °C)
Viscosity (dynamic): (; 30 °C (86 °F); Method: no method)	10,000 - 15,000 cp
VOC content (2004/42/EC)	0.00 % (VOCV 814.018 VOC regulation CH)

Section 10. Stability and reactivity

Stability:	Stable under normal conditions of temperature and pressure.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Excessive heat. Store away from incompatible materials.
Incompatible materials:	This product may react with strong acids or oxidizing agents. Epoxides.
Hazardous decomposition products:	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
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:
Poly[oxy(methyl-1,2-ethanediyl)], a-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopyran 72244-98-5	LD50 LD50	2,600 mg/kg > 10,200 mg/kg	oral dermal		rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
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
1,3-bis[3-(dimethylamino)propyl]urea 52338-87-1	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptopyran 72244-98-5	sensitising	Mouse local lymph node 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.

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
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)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptop 72244-98-5	LC50	87 mg/l	Fish	96 h	Danio rerio (reported as Brachydanio 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-mercaptop 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-mercaptop 72244-98-5	EC50	> 733 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus 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-mercaptop 72244-98-5	NOEC	338 mg/l	Algae	72 h	Desmodesmus subspicatus (reported as Scenedesmus 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-mercaptop 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)

Persistence and degradability:

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

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	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)
Poly[oxy(methyl-1,2-ethanediyl)], a-hydro-w-hydroxy-, ether with 2,2-bis(hydroxymethyl)-1,3-propanediol (4:1), 2-hydroxy-3-mercaptan 72244-98-5	> 1.2				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**Road and Rail Transport:**

Dangerous Goods information: Not classified as Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code).

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

Section 16. Other information

Abbreviations/acronyms: ADGC - Australian Dangerous Goods Code
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
OECD: Organization for Economic Cooperation and Development
NOAEL: No Observed Adverse Effect Level
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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Disclaimer:

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