

ELASTON® W80 PART B

Version	Revision Date:	SDS Number:	Date of last issue: 08.06.2016
1.2	03.03.2019	400001001413	Date of first issue: 02.09.2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ELASTON® W80 PART B

Manufacturer or supplier's details

Company : LiquiMix Pty Ltd

Address : ABN: 32 062 887 585
24 Rosa Place
Richlands, Brisbane
Qld Australia

Telephone : + 613 277 6655

E-mail address : info@liquimix.com

Emergency telephone number : Australia: 1800 786 152 (ALL HOURS)
International: +65 6336 6011 (ALL HOURS)**Recommended use of the chemical and restrictions on use**

Recommended use : Component of a Polyurethane System.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 1B

Serious eye damage/eye
irritation : Category 1Specific target organ toxicity -
repeated exposure (Oral) : Category 2 (Pancreas, Liver, Kidney)

Acute aquatic toxicity : Category 2

Chronic aquatic toxicity : Category 2

GHS label elementsHazard pictograms : 

Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

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H373 May cause damage to organs (Pancreas, Liver, Kidney) through prolonged or repeated exposure if swallowed.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
: Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
 P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
 P314 Get medical advice/ attention if you feel unwell.
 P363 Wash contaminated clothing before reuse.
 P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards which do not result in classification

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3- propanetriyltris[.omega.-(2-aminomethylethoxy)-	64852-22-8	>= 30 - < 60
Diaminopolypropylene glycol	9046-10-0	>= 10 - < 30
diethylmethylbenzenediamine	68479-98-1	>= 10 - < 30

SECTION 4. FIRST AID MEASURES

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General advice : Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : None known.

SECTION 5. FIREFIGHTING MEASURES

Specific hazards during firefighting : No data is available on the product itself.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Hazchem Code : 2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Not applicable for product as supplied.

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.

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Hygiene measures : General industrial hygiene practice.

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.
Refer to Australian/New Zealand Standard AS/NZS 1715 and AS/NZS 1716 for guidance on selection and use of respiratory devices.

Hand protection
Remarks : Refer to Australian/New Zealand Standard AS/NZS 2161.1: 2000 for guidance on selection and use of protective gloves.

Eye protection : Safety glasses
Refer to Australian/New Zealand Standard AS/NZS 1337:1992 for guidance on selection and use of protective eyewear.

Skin and body protection : Protective suit

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, dark red

Odour : amine-like

Odour Threshold : No data is available on the product itself.

pH : No data is available on the product itself.

Freezing point : No data is available on the product itself.

Melting point : No data is available on the product itself.

Boiling point : No data is available on the product itself.

Flash point : > 200 °C
Method: open cup

Evaporation rate : No data is available on the product itself.

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Flammability (solid, gas) : No data is available on the product itself.

Flammability (liquids) : No data is available on the product itself.

Upper explosion limit / Upper flammability limit : No data is available on the product itself.

Lower explosion limit / Lower flammability limit : No data is available on the product itself.

Vapour pressure : No data is available on the product itself.

Relative vapour density : No data is available on the product itself.

Relative density : No data is available on the product itself.

Density : 1.00 g/cm³ (21 °C)

Solubility(ies)

Water solubility : No data is available on the product itself.

Solubility in other solvents : No data is available on the product itself.

Partition coefficient: n-octanol/water : No data is available on the product itself.

Auto-ignition temperature : No data is available on the product itself.

Thermal decomposition : No data is available on the product itself.

Self-Accelerating decomposition temperature (SADT) : No data is available on the product itself.

Viscosity : No data is available on the product itself.

Explosive properties : No data is available on the product itself.

Oxidizing properties : No data is available on the product itself.

Particle size : No data is available on the product itself.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : No decomposition if stored and applied as directed.

Possibility of hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.

Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

Exposure routes : No data is available on the product itself.

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Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : 1,149 mg/kg
Method: Calculation method

Acute inhalation toxicity : No data available

Components:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-(2-aminomethylethoxy)-:

Acute dermal toxicity : LD50 (Rabbit): 12,500 mg/kg

Diaminopolypropylene glycol:

Acute dermal toxicity : LD50 (Rabbit): 2,090 mg/kg

diethylmethylbenzenediamine:

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal toxicity

Acute toxicity (other routes of administration) : No data available

Skin corrosion/irritation**Components:**

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-(2-aminomethylethoxy)-:

Assessment: Irritating to skin.

Result: Irritating to skin.

Diaminopolypropylene glycol:

Result: Corrosive after 3 minutes to 1 hour of exposure

diethylmethylbenzenediamine:

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: No skin irritation

Serious eye damage/eye irritation**Components:**

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-(2-aminomethylethoxy)-:

Result: Risk of serious damage to eyes.

Assessment: Severe eye irritation

Diaminopolypropylene glycol:

Result: Risk of serious damage to eyes.

Assessment: Risk of serious damage to eyes.

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Remarks: Risk of serious damage to eyes.

diethylmethylbenzenediamine:

Species: Rabbit

Result: Irritating to eyes.

Assessment: Irritant

Species: Rabbit

Result: Normally reversible injuries

Assessment: Irritant

Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Components:**

diethylmethylbenzenediamine:

Exposure routes: Skin

Species: Guinea pig

Result: Does not cause skin sensitisation.

Assessment: No data available

Chronic toxicity**Germ cell mutagenicity****Components:**

diethylmethylbenzenediamine:

Genotoxicity in vitro : Metabolic activation: negative
Method: OECD Test Guideline 476
Result: negative

Components:

diethylmethylbenzenediamine:

Genotoxicity in vivo : Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Carcinogenicity**Components:**

diethylmethylbenzenediamine:

Species: Rat, (male and female)

Application Route: Oral

Exposure time: 24 month(s)

Dose: 1.8 - 3.2 mg/kg

Frequency of Treatment: 7 daily

Method: OECD Test Guideline 451

Result: negative

Carcinogenicity - Assessment : No data available

Reproductive toxicity

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Effects on fertility : No data available

Effects on foetal development : No data available

Reproductive toxicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure**Components:**

diethylmethylbenzenediamine:

Exposure routes: Ingestion

Target Organs: Pancreas, Liver, Kidney

Assessment: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity**Components:**

diethylmethylbenzenediamine:

Species: Rat, male and female

NOAEL: 8 - 10 mg/kg

Application Route: Ingestion

Exposure time: 2,160 h

Method: Subchronic toxicity

Repeated dose toxicity - Assessment : No data available

Aspiration toxicity

No data available

Experience with human exposure

General Information: No data available

Inhalation: No data available

Skin contact: No data available

Eye contact: No data available

Ingestion: No data available

Toxicology, Metabolism, Distribution

No data available

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Neurological effects

No data available

Further information**Product:**

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:**

Diaminopolypropylene glycol:

Toxicity to fish : LC50: > 100 mg/l
Exposure time: 96 h

diethylmethylbenzenediamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 200 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: DIN 38412**Components:**

Diaminopolypropylene glycol:

Toxicity to daphnia and other aquatic invertebrates : EC50: 15 mg/l
Exposure time: 48 h

diethylmethylbenzenediamine:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.5 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.2.**Components:**

Diaminopolypropylene glycol:

Toxicity to algae : IC50: 135 mg/l
Exposure time: 72 h

diethylmethylbenzenediamine:

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): ca. 104 mg/l
Exposure time: 72 h
Test Type: static test
Test substance: Fresh water
Method: OECD Test Guideline 201**Components:**

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diethylmethylbenzenediamine:
M-Factor (Acute aquatic toxicity) : 1
Toxicity to fish (Chronic toxicity) : No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : No data available

M-Factor (Chronic aquatic toxicity) : No data available

Components:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-(2-aminomethylethoxy)-]:

Toxicity to microorganisms : LC50: 68 mg/l
Exposure time: 96 h

diethylmethylbenzenediamine:
Toxicity to microorganisms : EC50 (Pseudomonas putida): >= 170 mg/l
Exposure time: 24 h
Test Type: static test
Test substance: Fresh water

Toxicity to soil dwelling organisms : No data available

Plant toxicity : No data available

Sediment toxicity : No data available

Toxicity to terrestrial organisms : No data available

Ecotoxicology Assessment
Acute aquatic toxicity : No data available

Components:

Poly[oxy(methyl-1,2-ethanediyl)], .alpha.,.alpha.',.alpha."-1,2,3-propanetriyltris[.omega.-(2-aminomethylethoxy)-]:

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Toxicity Data on Soil : No data available

Other organisms relevant to the environment : No data available

Persistence and degradability
Components:

diethylmethylbenzenediamine:
Biodegradability : Result: Not readily biodegradable.
Biodegradation: < 60 %
Exposure time: 28 d

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Result: Not readily biodegradable.
 Biodegradation: < 1 %
 Exposure time: 28 d
 Method: OECD Test Guideline 301D

Biochemical Oxygen Demand (BOD) : No data available

Chemical Oxygen Demand (COD) : No data available

BOD/COD : No data available

ThOD : No data available

BOD/ThOD : No data available

Dissolved organic carbon (DOC) : No data available

Physico-chemical removability : No data available

Stability in water : No data available

Components:

diethylmethylbenzenediamine:
 Photodegradation : Test Type: Air
 Rate constant: < .00001

Impact on Sewage Treatment : No data available

Bioaccumulative potential
Components:

diethylmethylbenzenediamine:
 Bioaccumulation : Bioconcentration factor (BCF): 13.82
 Remarks: Bioaccumulation is unlikely.

Bioconcentration factor (BCF): 2.75
 Remarks: Does not bioaccumulate.

Components:

diethylmethylbenzenediamine:
 Partition coefficient: n-octanol/water : log Pow: 1.17 (25 °C)
 Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available

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Components:

diethylmethylenediamine:

Distribution among environmental compartments : Koc: 132 - 170
Koc: 31.72 - 551

Stability in soil : No data available

Other adverse effects

Environmental fate and pathways : No data available

Results of PBT and vPvB assessment : No data available

Endocrine disrupting potential : No data available

Adsorbed organic bound halogens (AOX) : No data available

Hazardous to the ozone layer

Ozone-Depletion Potential Not applicable

Additional ecological information - Product : No data available

Global warming potential (GWP) : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA**

UN/ID No. : UN 2735
Proper shipping name : Amines, liquid, corrosive, n.o.s.
(POLYOXYPROPYLENEDIAMINE)
(POLYOXYPROPYLENEDIAMINE, GLYCERYL
POLY(OXYPROPYLENE)TRIAMINE)
Class : 8
Packing group : III
Labels : Corrosive

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Packing instruction (cargo aircraft) : 856
Packing instruction (passenger aircraft) : 852

IMDG

UN number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
(POLYOXYPROPYLENEDIAMINE)(POLYOXYPROPYLENE
DIAMINE, GLYCERYL POLY(OXYPROPYLENE)TRIAMINE)
Class : 8
Packing group : III
Labels : 8
EmS Code : F-A, S-B
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations
ADG

UN number : UN 2735
Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.
(POLYOXYPROPYLENEDIAMINE)
(POLYOXYPROPYLENEDIAMINE, GLYCERYL
POLY(OXYPROPYLENE)TRIAMINE)
Class : 8
Packing group : III
Labels : 8
Hazchem Code : 2X

SECTION 15. REGULATORY INFORMATION
Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : No poison schedule number allocated
Scheduling of Medicines and
Poisons

Australia Work Health and Safety Regulations - Schedule 10 Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. : There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.

Other international regulations
The components of this product are reported in the following inventories:

CH INV : The formulation contains substances listed on the Swiss Inventory
DSL : All components of this product are on the Canadian DSL
AICS : On the inventory, or in compliance with the inventory

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NZIoC : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

TCSI : On the inventory, or in compliance with the inventory

TSCA : On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Revision Date :
 Date format 03.03.2019 :
 dd.mm.yyyy

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication, NOTHING HEREIN IS TO BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

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THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

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