

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue:
3.0	01.05.2019	400001010782	05.10.2017
			Date of first issue: 29.10.2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TUFFLON-P90 Part B

Manufacturer or supplier's details

Company : LiquiMix Pty Ltd
: ABN 32 062 887 585
Address : 24 Rosa Place Richlands
Queensland, 4077
Australia
Telephone : + 617 3277 6655
E-mail address : admin@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 1
Specific target organ toxicity - repeated exposure (Oral) : Category 2 (Pancreas, Liver, Kidney)
Acute aquatic toxicity : Category 1
Acute aquatic toxicity : Category 1
Chronic aquatic toxicity : Category 1

GHS label elements

Hazard pictograms : 

Signal word : Danger

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Hazard statements : H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H373 May cause damage to organs (Pancreas, Liver, Kidney) through prolonged or repeated exposure if swallowed.
 H410 Very 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)-diethylmethylbenzenediamine	64852-22-8	>= 30 - < 60
Diaminopolypropylene glycol	68479-98-1	>= 10 - < 30
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	9046-10-0	>= 10 - < 30
	2530-83-8	>= 1 - < 3

TUFFLON-P90 Part B

Version 3.0	Revision Date: 01.05.2019	SDS Number: 400001010782	Date of last issue: 05.10.2017 Date of first issue: 29.10.2015
----------------	------------------------------	-----------------------------	---

SECTION 4. FIRST AID MEASURES

- | | |
|---|---|
| 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. |
|---|---|

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Advice on safe handling	: For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.
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	: > 116 °C

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Method: closed cup

Evaporation rate	: No data is available on the product itself.
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/cm ³ (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	
Viscosity, dynamic	: 720 - 860 mPa.s (21 °C)
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

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : 1,216 mg/kg
Method: Calculation method

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity

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

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

Diaminopolypropylene glycol:

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute dermal toxicity : LD50 (Rabbit, male): 4,250 mg/kg
Method: OECD Test Guideline 402

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.

diethylmethylbenzenediamine:

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Species: Rabbit
Assessment: No skin irritation
Method: OECD Test Guideline 404
Result: No skin irritation

Diaminopolypropylene glycol:
Result: Corrosive after 3 minutes to 1 hour of exposure

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:
Species: Rabbit
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

diethylmethylbenzenediamine:
Species: Rabbit
Result: Irritating to eyes.
Assessment: Irritant

Species: Rabbit
Result: Normally reversible injuries
Assessment: Irritant
Method: OECD Test Guideline 405

Diaminopolypropylene glycol:
Result: Risk of serious damage to eyes.
Assessment: Risk of serious damage to eyes.
Remarks: Risk of serious damage to eyes.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:
Species: Rabbit
Result: Risk of serious damage to eyes.
Assessment: Severe eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitisation**Components:**

diethylmethylbenzenediamine:
Exposure routes: Skin
Species: Guinea pig
Result: Does not cause skin sensitisation.

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:
Exposure routes: Skin
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Assessment: No data available

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

diethylmethylbenzenediamine:

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: positive

Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: positive

Components:

diethylmethylbenzenediamine:

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Genotoxicity in vivo : Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: positive

Application Route: Intraperitoneal injection
Dose: 1600 mg/kg
Result: negative

Application Route: Oral
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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Species: Mouse, (male)
Application Route: Dermal
Exposure time: 482 days
Dose: 5 mg/kg

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Frequency of Treatment: 3 daily
Result: negative

Carcinogenicity - : No data available
Assessment

Reproductive toxicity**Components:**

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Effects on fertility : Species: Rat, male and female
Application Route: Oral
Method: OECD Test Guideline 415
Result: No effects on fertility and early embryonic development were detected.

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Effects on foetal development : Species: Rabbit, female
Application Route: Oral
General Toxicity Maternal: No observed adverse effect level:
200 mg/kg body weight
Method: OECD Test Guideline 414
Result: No teratogenic effects

Reproductive toxicity - : No data available
Assessment

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Species: Rat, male and female

NOEC: > 1000 mg/m³

Application Route: Ingestion

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue:
3.0	01.05.2019	400001010782	05.10.2017
			Date of first issue: 29.10.2015

Test atmosphere: dust/mist
Exposure time: 672 h
Number of exposures: 5 d
Method: OECD Test Guideline 412

Species: Rat, male and female
NOAEL: 1000 mg/kg/d
Application Route: Ingestion
Exposure time: 2,160 h
Number of exposures: 7 d
Method: Subchronic toxicity

Repeated dose toxicity - : No data available
Assessment

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

Neurological effects

No data available

Further information**Product:**

Remarks: No data available

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

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

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

Diaminopolypropylene glycol:

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l
Exposure time: 96 h
Test Type: semi-static test
Test substance: Fresh water
Method: Directive 67/548/EEC, Annex V, C.1.

Components:

diethylmethylbenzenediamine:

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

Diaminopolypropylene glycol:

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to daphnia and other : LC50: 324 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test
Test substance: Fresh water

Components:

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

Diaminopolypropylene glycol:

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to algae : EC50: 119 mg/l
Exposure time: 168 h
Test Type: static test
Test substance: Fresh water

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Components:

diethylmethylbenzenediamine:

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

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): >= 100 mg/l Exposure time: 21 d Test Type: semi-static test Test substance: Fresh water Method: OECD Test Guideline 211
--	---	--

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

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute aquatic toxicity	:	This product has no known ecotoxicological effects.
------------------------	---	---

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.
--------------------------	---	--

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

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

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

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

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Biodegradability : Inoculum: activated sludge
Result: Not readily biodegradable.
Biodegradation: 37 %
Exposure time: 28 d
Method: Directive 67/548/EEC Annex V, C.4.A.

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

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Stability in water : Degradation half life(DT50): 6.5 hrs (24.5 °C) pH: 7
Method: OECD Test Guideline 111
Remarks: Fresh water

Degradation half life(DT50): 0.15 hrs (24.5 °C) pH: 5
Method: OECD Test Guideline 111
Remarks: Fresh water

Degradation half life(DT50): 0.13 hrs (24.5 °C) pH: 9

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue:
3.0	01.05.2019	400001010782	05.10.2017
			Date of first issue: 29.10.2015

Method: OECD Test Guideline 111
Remarks: Fresh water

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:
Partition coefficient: n-
octanol/water : log Pow: -2.6 (25 °C)

Mobility in soil

Mobility : No data available

Components:

diethylmethylbenzenediamine:
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 : No data available

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

halogens (AOX)

Hazardous to the ozone layer

Ozone-Depletion Potential Not applicable

Additional ecological
information - Product : No data availableGlobal 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, GLYCERYL POLY(OXYPROPYLENE)TRIAMINE)
Class	: 8
Packing group	: III
Labels	: Corrosive
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, 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

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

ADG

UN number	: UN 2735
Proper shipping name	: AMINES, LIQUID, CORROSIVE, N.O.S. (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
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

TUFFLON-P90 Part B

Version	Revision Date:	SDS Number:	Date of last issue: 05.10.2017
3.0	01.05.2019	400001010782	Date of first issue: 29.10.2015

Revision Date	: 01.05.2019
Date format	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.

IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

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.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

The trademarks above are the property of LiquiMix Pty Ltd or an affiliate thereof.

NO PERSON OR ORGANIZATION EXCEPT A DULY AUTHORIZED LIQUIMIX EMPLOYEE IS AUTHORIZED TO PROVIDE OR MAKE AVAILABLE DATA SHEETS FOR LIQUIMIX PRODUCTS. DATA SHEETS FROM UNAUTHORIZED SOURCES MAY CONTAIN INFORMATION THAT IS NO LONGER CURRENT OR ACCURATE.