

Tufflon-D60 Part B

Version Revision Date: SDS Number: Date of last issue: 20.11.2015
1.1 01.05.2019 400001007339 Date of first issue: 20.11.2015

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Tufflon-D60 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 : + 61 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

Acute aquatic toxicity : Category 1

Chronic aquatic toxicity : Category 1

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention**:



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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.

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)
4,4'-methylenebis[N-sec-butylaniline]	5285-60-9	>= 30 - < 60
Polyoxypropylenediamine	9046-10-0	>= 30 - < 60
Poly[oxy(methyl-1,2-ethanediyl)],	64852-22-8	< 10
.alpha.,.alpha.',.alpha."-1,2,3-		
propanetriyltris[.omega(2-aminomethylethoxy)-		
diethylmethylbenzenediamine	68479-98-1	< 10

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.



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If inhaled : If unconscious, place in recovery position and seek medical

advice

If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated

wounds from corrosion of the skin heal slowly and with

difficulty.

If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Most important symptoms and effects, both acute and

delayed

: None known.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : No data is available on the product itself.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No data is available on the product itself.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

Hazchem Code : 2X

SECTION 6. ACCIDENTAL RELEASE MEASURES



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Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

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 : Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

To avoid spills during handling keep bottle on a metal tray. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

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 : In the case of vapour formation use a respirator with an



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approved filter.

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 : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

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

Eye protection : Eye wash bottle with pure water Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Refer to Australian/New Zealand Standard AS/NZS

1337:1992 for guidance on selection and use of protective

eyeware.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : yellow, clear

Odour : No data is available on the product itself.

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

Method: closed cup Method: open 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.



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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 g/cm3 (25 °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 : 200 - 400 mPa.s

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 : No decomposition if stored and applied as directed.

reactions

Conditions to avoid : No data available

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : 991.48 mg/kg

Method: Calculation method

Components:

Polyoxypropylenediamine:

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.74 mg/l



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> Exposure time: 8 h Test atmosphere: vapour

Method: OECD Test Guideline 403

Acute dermal toxicity -

Product

: Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Product:

Remarks: Extremely corrosive and destructive to tissue.

Serious eye damage/eye irritation

Product:

Remarks: May cause irreversible eye damage.

Respiratory or skin sensitisation

Product:

Remarks: Causes sensitisation.

No data available Assessment:

Chronic toxicity

Germ cell mutagenicity

Components:

4,4'-methylenebis[N-sec-butylaniline]:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Polyoxypropylenediamine:

Genotoxicity in vitro : Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

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



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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

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:

Polyoxypropylenediamine: Species: Rat, male and female

NOAEL: 1000 mg/kg/d

Application Route: Skin contact

Exposure time: 672 h Method: Subacute toxicity

Species: Rat, male and female

NOAEL: 300 mg/kg/d

Application Route: Skin contact Exposure time: 2,160 h

Method: Subchronic toxicity

diethylmethylbenzenediamine: Species: Rat, male and female



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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

Neurological effects

No data available

Further information

Product:

Remarks: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Polyoxypropylenediamine:

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



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Test Type: static test

Test substance: Fresh water

Method: DIN 38412

Components:

Polyoxypropylenediamine:

Toxicity to daphnia and other : EC50: 15 mg/l aquatic invertebrates

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:

Polyoxypropylenediamine:

: IC50: 135 mg/l Toxicity to algae

Exposure time: 72 h

diethylmethylbenzenediamine:

Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): ca. 104

Exposure time: 72 h Test Type: static test Test substance: Fresh water

Method: OECD Test Guideline 201

Components:

diethylmethylbenzenediamine: M-Factor (Acute aquatic : 1

toxicity)

Toxicity to fish (Chronic

toxicity)

: No data available

Toxicity to daphnia and other : No data available

aquatic invertebrates (Chronic toxicity)

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



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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:

4,4'-methylenebis[N-sec-butylaniline]:

Acute aquatic toxicity : Very toxic to aquatic life.

Polyoxypropylenediamine:

Acute aquatic toxicity : Harmful to aquatic life.

Components:

4,4'-methylenebis[N-sec-butylaniline]:

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Polyoxypropylenediamine:

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

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:

Polyoxypropylenediamine:

Biodegradability : Result: Not biodegradable

Biodegradation: < 60 % Exposure time: 28 d

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

Biochemical Oxygen : No data available



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Demand (BOD)

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:

4,4'-methylenebis[N-sec-butylaniline]:

Bioaccumulation : Bioconcentration factor (BCF): 4,700

diethylmethylbenzenediamine:

Bioaccumulation : Bioconcentration factor (BCF): 13.82

Remarks: Bioaccumulation is unlikely.

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

Components:

4,4'-methylenebis[N-sec-butylaniline]:

Partition coefficient: n- : log Pow: 6.08 octanol/water : Method: QSAR

diethylmethylbenzenediamine:

Partition coefficient: n- : log Pow: 1.17 (25 °C)

octanol/water Method: OECD Test Guideline 107

Mobility in soil

Mobility : No data available



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Components:

4,4'-methylenebis[N-sec-butylaniline]:
Distribution among : Koc: 4.91
environmental compartments Method: QSAR

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

halogens (AOX)

: No data available

Hazardous to the ozone layer

Ozone-Depletion Potential

Not applicable

Additional ecological

information - Product

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Global warming potential

(GWP)

: No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION



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International Regulations

IATA

UN/ID No. : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s.

(POLYOXYPROPYLENEDIAMINE)

: 8 Class Packing group : 11

: Corrosive Labels : 855

Packing instruction (cargo

aircraft)

: 851 Packing instruction

(passenger aircraft)

IMDG

UN number : UN 2735

Proper shipping name AMINES, LIQUID, CORROSIVE, N.O.S.

(POLYOXYPROPYLENEDIAMINE)

Class 8 Packing group Ш 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)

Class : 8 Packing group : 11 Labels 8 : 2X Hazchem Code

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform Schedule 5

Scheduling of Medicines and

Poisons

Australia Work Health and Safety Regulations -: Not listed

Schedule 10 Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Other international regulations



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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 : Not in compliance with the inventory

ENCS : Not 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

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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.

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.

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