

PURL-SJ60 PART B

Version Revision Date: SDS Number: Date of last issue: -

1.0 07.03.2019 40000006949 Date of first issue: 07.03.2019

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PURL-SJ60 PART B

Manufacturer or supplier's details

Company : LiquiMix Pty Ltd

Address : ABN 32 062 887 585

24 Rosa Place Richlands

Queensland 4077

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.

Restrictions on use : For industrial use only.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye damage/eye

irritation

: Category 2A

Skin sensitisation : Category 1

Long-term (chronic) aquatic

hazard

: Category 3

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:



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P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin 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/ face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.

P363 Wash contaminated clothing before reuse.

Storage: Not available 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)
triethyl phosphate	78-40-0	>= 10 - < 30
Polyether polyol	25084-89-3	>= 1.6 - < 10

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Treat symptomatically.

Get medical attention if symptoms occur.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.



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If swallowed Keep respiratory tract clear.

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.

Notes to physician

: Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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

Carbon oxides

Nitrogen oxides (NOx)

Formaldehyde

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures

: Use personal protective equipment.

Refer to protective measures listed in sections 7 and 8.

: Prevent product from entering drains. Environmental precautions

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

fire and explosion

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



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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.

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. Keep in properly labelled containers.

Materials to avoid : For incompatible materials please refer to Section 10 of this

SDS.

Further information on

storage stability

Stable under normal conditions.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines Refer to Australian/New Zealand Standard AS/NZS 1715 and

AS/NZS 1716 for guidance on selection and use of

respiratory devices.

Filter type : Organic vapour type

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



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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 : colourless, 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 : > 100 °C

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 : 1.08 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.



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Self-Accelerating

decomposition temperature

(SADT)

No data is available on the product itself.

Viscosity

Viscosity, dynamic : 790 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 dangerous reaction known under conditions of normal use.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: No hazards to be specially mentioned.

Conditions to avoid : None known.

Incompatible materials : None known.

Hazardous decomposition

products

carbon dioxide carbon monoxide

Nitrogen oxides formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

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

Acute toxicity

Acute oral toxicity - Product : Acute toxicity estimate : > 2,000 mg/kg

Method: Calculation method

Components:

triethyl phosphate:

Acute inhalation toxicity : LC50 (Rat, male and female): > 8817 mg/m3

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Components:

triethyl phosphate:

Acute dermal toxicity : LD50 (Rabbit): > 20,000 mg/kg



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Polyether polyol:

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Acute toxicity (other routes of : No data available

administration)

Skin corrosion/irritation

Components:

triethyl phosphate: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404

Result: No skin irritation

Polyether polyol: Species: Rabbit

Assessment: No skin irritation Method: OECD Test Guideline 404 Result: Normally reversible injuries

Serious eye damage/eye irritation

Components:

triethyl phosphate: Species: Rabbit Result: Eve irritation

Method: OECD Test Guideline 405

Polyether polyol: Species: Rabbit

Result: Normally reversible injuries Assessment: No eye irritation Method: OECD Test Guideline 405

Respiratory or skin sensitisation

Components:

triethyl phosphate: Exposure routes: Skin Species: Mouse

Method: OECD Test Guideline 429 Result: Does not cause skin sensitisation.

Polyether polyol: Exposure routes: Skin Species: Guinea pig

Method: OECD Test Guideline 406

Result: May cause sensitisation by skin contact.

Assessment: No data available



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Chronic toxicity

Germ cell mutagenicity

Components:

triethyl phosphate:

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

Method: OECD Test Guideline 476

Result: negative

Method: OECD Test Guideline 482

Result: negative

Polyether polyol:

Genotoxicity in vitro : Concentration: 50 - 5000 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Concentration: 150 - 2100 µg/L

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Components:

triethyl phosphate:

Genotoxicity in vivo : Application Route: Intraperitoneal injection

Method: OECD Test Guideline 478

Result: negative

Carcinogenicity

No data available

Carcinogenicity -

: No data available

Assessment

Reproductive toxicity

Components:

Polyether polyol:

Effects on fertility : Species: Rat, male and female

Application Route: Oral Target Organs: Liver, Thyroid Method: OECD Test Guideline 421

Result: negative

Components:

triethyl phosphate:

Effects on foetal : Species: Rat



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development Application Route: Oral

General Toxicity Maternal: No observed adverse effect level:

125 mg/kg body weight

Method: OECD Test Guideline 414 Result: No teratogenic effects

Reproductive toxicity -

Assessment

: No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

Components:

triethyl phosphate:

Species: Rat, male and female: 1000 mg/kg, 366 mg/m3
Application Route: Ingestion
Test atmosphere: dust/mist
Exposure time: 4 Weeks
Number of exposures: 7 d
Method: Subacute toxicity

Polyether polyol:

Species: Rat, male and female

NOAEL: 40 mg/kg

Application Route: Ingestion Exposure time: 4 Weeks Number of exposures: 7 d Method: Subacute 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



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No data available Ingestion:

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

Further information

Ingestion: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

triethyl phosphate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l

> Exposure time: 96 h Test Type: static test

Test substance: Fresh water

Polyether polyol:

Toxicity to fish : LC50: >= 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Components:

triethyl phosphate:

Toxicity to daphnia and other : LC50: > 100 mg/l

aquatic invertebrates

Exposure time: 96 h

Test Type: static test Test substance: Fresh water

Polyether polyol:

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 100 mg/l

: EC50 (Desmodesmus subspicatus (green algae)): 901 mg/l

Exposure time: 48 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 202 Remarks: Toxic to aquatic organisms.

Components:

triethyl phosphate:

Toxicity to algae/aquatic

plants Exposure time: 72 h

Test Type: static test



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Test substance: Fresh water

Polyether polyol:

Toxicity to algae/aquatic

plants

: EbC50 (Selenastrum capricornutum (green algae)): 46 mg/l

Exposure time: 72 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 201

M-Factor (Acute aquatic

toxicity)

: No data available

Toxicity to fish (Chronic

toxicity)

: No data available

Components:

triethyl phosphate:

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 31.6 mg/l

Exposure time: 21 d

Test substance: Fresh water Method: OECD Test Guideline 211

Polyether polyol:

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.32 mg/l

Exposure time: 21 d

Test substance: Fresh water

Method: OECD Test Guideline 211

M-Factor (Chronic aquatic

toxicity)

: No data available

Components:

triethyl phosphate:

Toxicity to microorganisms : (Pseudomonas putida): 2,985 mg/l

Exposure time: 0.5 h
Test Type: static test
Test substance: Fresh water

Polyether polyol:

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

Exposure time: 3 h Test Type: static test

Test substance: Fresh water Method: OECD Test Guideline 209

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



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Ecotoxicology Assessment

Acute aquatic toxicity : No data available

Chronic aquatic toxicity : No data available

Toxicity Data on Soil : No data available

Other organisms relevant to

the environment

: No data available

Persistence and degradability

Components:

triethyl phosphate:

Biodegradability : Inoculum: activated sludge

Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301C

Inoculum: activated sludge Result: Inherently biodegradable.

Biodegradation: 98 % Exposure time: 28 d

Method: OECD Test Guideline 302B

Polyether polyol:

Biodegradability : Inoculum: activated sludge

Concentration: 100 mg/l

Result: Not readily biodegradable.

Biodegradation: 22 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Inoculum: activated sludge Concentration: 250 mg/l

Result: Inherently biodegradable.

Biodegradation: 84 % Exposure time: 21 d

Method: OECD Test Guideline 302B

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



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Physico-chemical removability

: No data available

Components:

triethyl phosphate:

: Degradation half life(DT50): 5.5 yr (25 °C) pH: 7 Stability in water

Remarks: Fresh water

Photodegradation : No data available

Impact on Sewage

Treatment

: No data available

Bioaccumulative potential

Components:

triethyl phosphate:

Bioaccumulation : Species: Cyprinus carpio (Carp)

Bioconcentration factor (BCF): 0.5 - 0.8

Exposure time: 42 d

Test substance: Fresh water Method: semi-static test

Polyether polyol:

Bioaccumulation : Bioconcentration factor (BCF): 29.76

Remarks: Does not bioaccumulate.

Components:

triethyl phosphate:

Partition coefficient: n-: log Pow: 1.11

octanol/water Method: Partition coefficient

Polyether polyol:

Partition coefficient: n-

octanol/water

: log Pow: 3.13

Mobility in soil

Mobility : No data available

Components:

Polyether polyol:

: Koc: 14430 Distribution among

environmental compartments

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



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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.

Harmful 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.

Dispose of as hazardous waste in compliance with local and

national regulations.

Dispose of contents/ container to an approved waste disposal

plant.

Contaminated packaging : Empty remaining contents.

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

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA

Not regulated as dangerous goods

IMDG

Not regulated as dangerous goods

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

Not applicable for product as supplied.

National Regulations



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ADG

Not regulated as dangerous goods

SECTION 15. REGULATORY INFORMATION

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

Standard for the Uniform : Schedule 6

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.

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 : Not in compliance with the inventory

KECI : Not 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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