

**Safety Data Sheet**  
**PU CATALYST**

Safety Data Sheet dated: 11/05/2020 - version 1



**Section 1. Identification of the substance and supplier**

**Product identifier**

Mixture identification:

Trade name: PU CATALYST

Trade code: 9025861

**Recommended use of the chemical and restrictions on use**

Recommended use: Polyurethane catalyst

Uses advised against: N.A.

**Supplier's details**

Company: MBP (NZ) Ltd. - 88 Carbine Road, Mount Wellington, Auckland 1060, New Zealand Email: enquiries@MBPLtd.co.nz

Website: www.MBPLtd.co.nz - Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

**Emergency phone number**

New Zealand Poisons Centre: Ph: 0800 764 766

**Section 2. Hazards identification**

**HSNO hazard classification**

Classified as hazardous according to criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2017.

**HSNO classification:**

- 3.1C H226 - Flammable liquid and vapour.
- 6.1D (dermal) H312 - Harmful in contact with skin.
- 6.1D (inhalation) H332 - Harmful if inhaled.
- 6.3A H315 - Causes skin irritation.
- 6.4A H319 - Causes serious eye irritation.
- 6.9B (Repeated exposure) H373.G - May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
- 6.9B (Single exposure) H371.G - May cause damage to organs if inhaled, in contact with skin and if swallowed.
- 9.1C H412 - Harmful to aquatic life with long lasting effects.

**Hazard information**

**Pictograms and Signal Words**



Warning

**Hazard statements:**

- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H371 May cause damage to organs if inhaled, in contact with skin and if swallowed.
- H373 May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements:**

- P102 Keep out of reach of children.
- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.

P243	Take precautionary measures against static discharge.
P260	Do not breathe mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see supplementary instructions on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use a dry powder fire extinguisher for extinction.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

#### Other hazards which do not result in a classification

No other hazards

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### Section 3. Composition/information on ingredients

#### Substances

N.A.

#### Mixtures

Mixture identification: PU CATALYST

#### Hazardous components within the meaning of HSNO Act and related classification

Quantity	Name	Ident. Numb.	Classification
≥75 - <100 %	o-xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	3.1C, H226; 6.9B (Repeated exposure), H373; 6.1D (dermal), H312; 6.1D (inhalation), H332; 6.3A, H315; 6.4A, H319; 6.1E (respiratory tract irritant), H335; 9.1C, H412; 8.2A, H314
≥5 - <10 %	dioctyltin dilaurate	CAS:3648-18-8 EC:222-883-3	6.9B (Single exposure), H371

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### Section 4. First aid measures

#### Description of necessary first aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

**Indication of immediate medical attention and special treatment needed, if necessary**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**Most important symptoms/effects, acute and delayed**

Eye irritation  
Eye damages  
Skin Irritation  
Erythema

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**Section 5. Fire-fighting measures**

**Extinguishing media**

Suitable extinguishing media:

In case of fire: Use a dry powder fire extinguisher for extinction.

Unsuitable extinguishing media:

None in particular.

**Specific hazards arising from the chemical**

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

**Special protective equipment and precautions for fire-fighters**

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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**Section 6. Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

**Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

**Methods and materials for containment and cleaning up**

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

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**Section 7. Handling and storage**

**Precautions for safe handling**

Avoid contact with skin and eyes, inhalation of vapours and mists.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

**Conditions for safe storage, including any incompatibilities**

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Avoid accumulating electrostatic charge.

Incompatible materials:

None in particular.

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Instructions as regards storage premises:

Cool and adequately ventilated.

Safety electric system.

## Section 8. Exposure controls/personal protection

### Workplace Exposure Standards

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m <sup>3</sup>	Long Term ppm	Short Term mg/m <sup>3</sup>	Short Term ppm	Behaviour Note
o-xylene	NZL	NEW ZEALAND		217	50			

#### Biological Exposure Index

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
1330-20-7	o-xylene	1,5	GGCREAT	Urine	Methyl uric Acid	End of turn

#### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
o-xylene	1330-20-7	0,327	Fresh Water		
		mg/l			
		0,327	Marine water		
		mg/l			
		12,46	Freshwater		
		mg/kg	sediments		
		12,46	Marine water		
mg/kg	sediments				
dioctyltin dilaurate	3648-18-8	0,000001	Fresh Water		
		8 mg/l			
		0,02798	Freshwater		
		mg/kg	sediments		
		0,02798	Marine water		
		mg/kg	sediments		
		0,000001	Marine water		
8 mg/l					
dioctyltin dilaurate	3648-18-8	100	Microorganisms		
		mg/l	in sewage		
			treatments		
dioctyltin dilaurate	3648-18-8	0,005593	Soil		
		mg/kg			

#### Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Industr y	Worker Professi onal	Consu mer	Exposure Route	Exposure Frequency	Remark
o-xylene	1330-20-7	442,000000		174	Human Inhalation	Short Term, local effects	
		mg/m <sup>3</sup>		mg/m <sup>3</sup>			
o-xylene	1330-20-7	289		174	Human Inhalation	Short Term, systemic effects	
		mg/m <sup>3</sup>		mg/m <sup>3</sup>			

212, 000000 mg/kg	125, 000000 mg/kg	Human Dermal	Long Term, systemic effects
221, 000000 mg/m3	65, 300000 mg/m3	Human Inhalation	Long Term, systemic effects
	12, 500000 mg/kg	Human Oral	Long Term, systemic effects
dioctyltin dilaurate 3648-18-8	0,0005 mg/kg	Human Oral	Long Term, systemic effects
	0,0035 mg/m3	0,0009 mg/m3 Human Inhalation	Long Term, systemic effects

### Engineering Controls

N.A.

### Personal Protective Equipment (PPE)

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

## Section 9. Physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid colourless

Odour: aromatic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: -54 °C (-65 °F)

Initial boiling point and boiling range: 140 °C (284 °F)

Flash point: 23 °C (73 °F)

Flammability (Solid, Gas): N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour pressure: N.A.

Vapour density: N.A.

Relative density: N.A.

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Kinematic viscosity: N.A.

Particle characteristics: No Data Available

## Section 10. Stability and reactivity

### Reactivity

It may generate dangerous reactions (See subsections below)

### Chemical stability

It may generate dangerous reactions (See subsections below)

### Possibility of hazardous reactions

None.

### Conditions to avoid

Avoid accumulating electrostatic charge.

### Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

### Hazardous decomposition products

None.

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## Section 11. Toxicological information

### Information on toxicological effects

#### Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

#### Toxicological information on main components of the mixture:

o-xylene	a) acute toxicity	LD50 Oral Mouse = 5627,00000 mg/kg	
		LC50 Inhalation Vapour Rat = 11 mg/l 4h	
		LD50 Skin Rabbit > 5000,00000 mg/kg	
		LC50 Inhalation Rat = 29,08000 mg/l 4h	
		LC50 Inhalation Rat = 6700,00000 ppm 4h	
		LD50 Skin Rabbit > 4350 mg/kg	
		LD50 Oral Rat = 3500 mg/kg	
e) germ cell mutagenicity	NOAEL Inhalation Rat > 2000,00000 ppm		
		f) carcinogenicity	NOAEL Oral Rat = 500 mg/kg
		g) reproductive toxicity	NOAEL Inhalation Rat = 500,00000 ppm
dioctyltin dilaurate	a) acute toxicity	LD50 Oral Rat = 6450 mg/kg	
		LD50 Skin Rat > 2000,00000	
		LD50 Oral Rat = 6450 mg/kg	

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- k) Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
- j) aspiration hazard

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## Section 12. Ecological information

### Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

#### List of components with eco-toxicological properties

Component	Ident. Numb.	Ecotox Infos
o-xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	a) Aquatic acute toxicity : EC50 Daphnia = 165 mg/L 48
		a) Aquatic acute toxicity : LC50 Fish = 2,60000 mg/L 96 a) Aquatic acute toxicity : EC50 Algae = 2,2 mg/L 72 c) Bacteria toxicity : EC50 = 96 mg/L 24 b) Aquatic chronic toxicity : NOEC Fish > 1,3 mg/L - 56 days b) Aquatic chronic toxicity : NOEC Daphnia = 1,57 mg/L - 21 days

- a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 13,4 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 2,661 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 13,10000 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata 30,26000 mg/L 96h EPA
- a) Aquatic acute toxicity : EC50 Daphnia water flea = 3,82000 mg/L 48h
- a) Aquatic acute toxicity : LC50 Daphnia Gammarus lacustris = 0,60000 mg/L 48h
- b) Aquatic chronic toxicity : EC50 Algae = 0,44000 mg/L 72h
- a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss 13,5 mg/L 96h IUCLID
- a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 19 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus 7,711 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 23,53 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 780 mg/L 96h EPA
- a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio > 780 mg/L 96h IUCLID

**Persistence and degradability**

<b>Component</b>	<b>Persistence/De gradability:</b>
o-xylene	Readily biodegradable

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

**Section 13. Disposal considerations**

**Disposal methods**

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

**Special precautions to be taken during disposal**

No Data Available

**Section 14. Transport information**

**UN number**

1993

**UN proper shipping name**

- NZS-Shipping Name: FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)
- ADR-Shipping Name: FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)
- IATA-Technical name: FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)
- IMDG-Technical name: FLAMMABLE LIQUID, N.O.S. (2-methoxy-1-methylethyl acetate)

**Transport hazard class(es)**

- NZS-Class: 3
- ADR-Class: 3
- IATA-Class: 3
- IMDG-Class: 3

**Packing group, if applicable**

NZS-Packing Group: III

ADR-Packing Group: III  
IATA-Packing group: III  
IMDG-Packing group: III

#### **Environmental hazards**

Marine pollutant: No  
Environmental Pollutant: No

#### **Special precautions for user**

NZS-Subsidiary risks: -

NZS-Special Dispositions: 223 274 330

Road and Rail (ADR-RID):

ADR-Label: 3

ADR-Hazard identification number: -

ADR-Special Provisions: 274 601

ADR-Transport category (Tunnel restriction code): 3 (E)

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 223 274 955

IMDG-EMS: F-E, S-E

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## **Section 15. Regulatory information**

### **HSNO Approval**

HSNO approval number and group standard title:

HSR002662 - Surface Coatings and Colourants (Flammable) Group Standard 2006

### **HSNO Controls**

#### **Approved Handler**

No Data Available

### **New Zealand Inventory of Chemicals (NZIoC)**

All components are listed on the NZIoC Inventory.

### **Regulatory references**

Preparation of Safety Data Sheets - Approved Code of Practice Under the HSNO Act 1996 (HSNO CoP 8-1 09-06).

Hazardous Substances (Classification) Regulations 2001.

Labelling of Hazardous Substances: Hazard and Precautionary Information (January 2012 EPA0094).

Assigning a Product to a HSNO Approval (May 2013/Revised June 2014).

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## **Section 16. Other information**

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<b>Code</b>	<b>Description</b>
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H371	May cause damage to organs .
H371	May cause damage to organs if inhaled, in contact with skin and if swallowed.



H373	May cause damage to organs through prolonged or repeated exposure .
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.
H412	Harmful to aquatic life with long lasting effects.

**Description of the HSN0 Classification codes used in section 2 or 3:**

<b>Code</b>	<b>Description</b>
3.1C	Flammable liquid - medium hazard.
6.1D (dermal)	Substances that are acutely toxic - Harmful (dermal).
6.1D (inhalation)	Substances that are acutely toxic - Harmful (inhalation).
6.1E (respiratory tract irritant)	Respiratory tract irritant.
6.3A	Substances that are irritating to the skin.
6.4A	Substances that are irritating to the eye.
6.9B (Repeated exposure)	Substances that are harmful to human target organs or systems (Repeated exposure).
6.9B (Single exposure)	Substances that are harmful to human target organs or systems (Single exposure).
8.2A	Substances that are corrosive to dermal tissue UN PGI.
9.1C	Substances that are harmful in the aquatic environment.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

WGK: German Water Hazard Class.

KSt: Explosion coefficient.

HSNO: Hazardous Substances and New Organisms Act 1996.