

## Safety Data Sheet

### ADESILEX PG 1 comp.B

Safety Data Sheet dated: 11/03/2020 - version 1

## Section 1. Identification of the substance and supplier

### Product identifier

Mixture identification:

Trade name: ADESILEX PG 1 comp.B

Trade code: 900571

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

Recommended use: Hardener for epoxy products

Uses advised against: Data not available

### 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:

- |      |   |
|------|---|
| 8.2B | H314 - Causes severe skin burns and eye damage.   |
| 8.3A | H318 - Causes serious eye damage.   |
| 6.5B | H317 - May cause an allergic skin reaction.   |
| 6.8B | H361.G - Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed. |
| 9.1B | H411 - Toxic to aquatic life with long lasting effects.   |

### Hazard information

#### Pictograms and Signal Words



Danger

### Hazard statements:

- |      |  |
|------|--|
| H314 | Causes severe skin burns and eye damage.   |
| H317 | May cause an allergic skin reaction.   |
| H318 | Causes serious eye damage.   |
| H361 | Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed. |
| H411 | Toxic to aquatic life with long lasting effects.   |

### Precautionary statements:

- |                |  |
|----------------|--|
| P201           | Obtain special instructions before use.  |
| P202           | Do not handle until all safety precautions have been read and understood.  |
| P260           | Do not breathe mist/vapours/spray.   |
| P264           | Wash hands thoroughly after handling.  |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P281           | Use personal protective equipment as required.   |
| P301+P330+P331 | IF SWALLOWED: rinse mouth. Do NOT induce vomiting.   |
| 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. |

P308+P313	IF exposed or concerned: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see supplementary instructions on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P391	Collect spillage.
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: ADESILEX PG 1 comp.B

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

Quantity	Name	Ident. Numb.	Classification
≥10 - <20 %	m-xylylenediamine	CAS:1477-55-0 EC:216-032-5	6.1D (inhalation), H332; 6.1D (oral), H302; 8.2B, H314; 6.5B, H317; 9.1C, H412
≥2.5 - <5 %	4-tert-butylphenol	CAS:98-54-4 EC:202-679-0	6.3A, H315; 8.3A, H318; 6.8B, H361f; 9.1A, H410
≥1 - <2.5 %	Phenol, styrenated	CAS:61788-44-1 EC:262-975-0	6.3A, H315; 6.5B, H317; 9.1B, H411
≥1 - <2.5 %	trimethylhexane-1,6-diamine	CAS:25620-58-0 EC:247-134-8	6.1D (oral), H302; 8.2C, H314; 6.5B, H317; 9.1C, H412

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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.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- 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:

- Remove casualty to fresh air and keep warm and at rest.

#### 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:

- Water.
- Carbon dioxide (CO2).

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: ==  
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 persons to safety.  
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.  
Exercise the greatest care when handling or opening the container.  
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

Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.

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## Section 8. Exposure controls/personal protection

### Workplace Exposure Standards

#### List of components with OEL value

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour Note
m-xylenediamine	NZL	NEW ZEALAND	C			0,100		

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

Component	CAS-No.	PNEC LIMIT	Exposure Route	Exposure Frequency	Remark
m-xylenediamine	1477-55-0	0,094	Fresh Water		
		0,0094	Marine water		
		0,43	Freshwater sediments		
		0,043	Marine water sediments		

0,152 Intermittent  
mg/l release

0,045 Soil  
mg/kg

10 mg/l Microorganisms  
in sewage  
treatments

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

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
m-xylenylenediamine	1477-55-0	0,33 mg/kg			Human Dermal		Long Term, systemic effects
		1,2 mg/m3			Human Inhalation		Long Term, systemic effects
		0,2 mg/m3			Human Inhalation		Long Term, local 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: paste white

Odour: ammonia

Odour threshold: N.A.

pH: 11.00

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 100 °C (212 °F)

Flammability (Solid, Gas): N.A.

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

Vapour pressure: N.A.

Vapour density: N.A.

Relative density: 1.55 g/cm<sup>3</sup>

Solubility in water: partly soluble

Solubility in oil: insoluble

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

Viscosity: 100,000.00 cPs

## Section 10. Stability and reactivity

### Reactivity

Stable under normal conditions

### Chemical stability

Data not available.

**Possibility of hazardous reactions**

None.

**Conditions to avoid**

Stable under normal conditions.

**Incompatible materials**

None in particular.

**Hazardous decomposition products**

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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:**

m-xylylenediamine	a) acute toxicity	LD50 Oral Mouse = 930 mg/kg LD50 Skin Rabbit = 2000 mg/kg LC50 Inhalation Dust Rat = 2,4 mg/l 4h LD50 Skin Rabbit = 2 g/kg LC50 Inhalation Rat = 700 ppm 1h LD50 Oral Rat = 660 mg/kg
4-tert-butylphenol	a) acute toxicity	LD50 Skin Rabbit = 2318 mg/kg LD50 Oral Rat = 4000 mg/kg
Phenol, styrenated	a) acute toxicity	LD50 Oral Rat > 2000 mg/kg LD50 Skin Rat > 2000 mg/kg LC50 Inhalation Rat > 5 mg/l LD50 Skin Rabbit > 7940 mg/kg LC50 Inhalation Rat > 2,5 mg/l 6h LD50 Oral Rat 2100 mg/kg
trimethylhexane-1,6-diamine	a) acute toxicity	LD50 Oral Rat = 910 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**

<b>Component</b>	<b>Ident. Numb.</b>	<b>Ecotox Infos</b>
m-xylylenediamine	CAS: 1477-55-0 - EINECS: 216-032-5	a) Aquatic acute toxicity : EC50 Algae = 20 mg/L 72  a) Aquatic acute toxicity : EC50 Daphnia = 15,2 mg/L 48 a) Aquatic acute toxicity : LC50 Fish > 100 mg/L 96 a) Aquatic acute toxicity : LC50 Fish = 87,6 mg/L 96 a) Aquatic acute toxicity : LC50 Fish Oryzias latipes = 87,6 mg/L 96h ECHA
4-tert-butylphenol	CAS: 98-54-4 - EINECS: 202-679-0	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas 4,71 mg/L 96h EPA  a) Aquatic acute toxicity : LC50 Fish Cyprinus carpio = 6,9 mg/L 96h EPA a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 3,9 mg/L 48h IUCLID  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 3,4 mg/L 48h EPA a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 11,2 mg/L 72h IUCLID
Phenol, styrenated	CAS: 61788-44-1 - EINECS: 262-975-0	a) Aquatic acute toxicity : LC50 Daphnia = mg/L 48  a) Aquatic acute toxicity : LC50 Algae = 3,14 mg/L 72 a) Aquatic acute toxicity : EC50 Fish = 14,8 mg/L 96
trimethylhexane-1,6-diamine	CAS: 25620-58-0 - EINECS: 247-134-8	a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 29,5 mg/L 72h IUCLID

#### **Persistence and degradability**

N.A.

#### **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**

2735

#### **UN proper shipping name**

NZS-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine)

ADR-Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine)

IATA-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine)

IMDG-Technical name: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-xylylendiamine)

#### **Transport hazard class(es)**

NZS-Class: 8

ADR-Class: 8

IATA-Class: 8

IMDG-Class: 8

#### **Packing group, if applicable**

NZS-Packing Group: II

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

## Environmental hazards

Marine pollutant: Yes

Environmental Pollutant: Yes

## Special precautions for user

NZS-Subsidiary risks: -

NZS-Special Dispositions: 274

Road and Rail (ADR-RID):

ADR-Label: 8

ADR-Hazard identification number: 80

ADR-Special Provisions: 274

ADR-Transport category (Tunnel restriction code): 2 (E)

Air (IATA):

IATA-Passenger Aircraft: 851

IATA-Cargo Aircraft: 855

IATA-Label: 8

IATA-Subsidiary hazards: -

IATA-Erg: 8L

IATA-Special Provisions: A3 A803

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: SG35

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 274

IMDG-EMS: F-A, S-B

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## Section 15. Regulatory information

### HSNO Approval

HSNO approval number and group standard title:

HSR002618 - N.O.S. (Corrosive) 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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Code	Description
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361	Suspected of damaging fertility or the unborn child if inhaled, in contact with skin and if swallowed.
H361f	Suspected of damaging fertility.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Description of the HSNO Classification codes used in section 2 or 3:

<b>Code</b>	<b>Description</b>
6.1D (inhalation)	Substances that are acutely toxic - Harmful (inhalation).
6.1D (oral)	Substances that are acutely toxic - Harmful (oral).
6.3A	Substances that are irritating to the skin.
6.5B	Substances that are contact sensitisers.
6.8B	Substances that are suspected human reproductive or developmental toxicants.
8.2B	Substances that are corrosive to dermal tissue UN PGII.
8.2C	Substances that are corrosive to dermal tissue UN PGIII.
8.3A	Substances that are corrosive to ocular tissue.
9.1A	Substances that are very ecotoxic in the aquatic environment.
9.1B	Substances that are ecotoxic in the aquatic environment.
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.