

## Section 1: Identification of the substance and supplier

### Product identifier

Identification of the substance:

Trade name: MAPEFLOOR CPU+ /B

Trade code: 9024175

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

Recommended use: Hardener for polyurethane resins

Uses advised against: Data not available.

### Supplier's details

Company: MBP (NZ) Ltd. - 88 Carbine Road - Mount Wellington - 1060 - Auckland - New Zealand

Phone: +64 9 921 1994 (Mon-Fri 9am-5pm) - Fax: +64 9 921 1993

Responsible: enquiries@MBPLtd.co.nz - www.MBPLtd.co.nz

### Emergency phone number

New Zealand National Poisons Centre: Phone 0800 764 766 (for acute poisoning situations)

Chemcall: Phone 0800 243 622 (for chemical based incidents-emergencies)

## Section 2: Hazards identification

### HSNO 2020 (7th GHS UN rev.) hazard classification

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020

### Hazard classification

6.1D - Substances that are acutely toxic - Harmful (inhalation).

H332 - Harmful if inhaled.

6.3A - Substances that are irritating to the skin.

H315 - Causes skin irritation.

6.4A - Substances that are irritating to the eye.

H319 - Causes serious eye irritation.

6.5A - Substances that are respiratory sensitisers.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

6.7B - Substances that are suspected human carcinogens.

H351.G - Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

6.1E - Respiratory tract irritant.

H335 - May cause respiratory irritation.

6.9B - Substances that are harmful to human target organs or systems (Repeated exposure).

H373.G - May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

### Hazard information

#### Hazard pictograms and Signal Word



Danger

### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer 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.

### Precautionary statements

P102 Keep out of reach of children.

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 skin thoroughly after handling.

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341	IF INHALED: If breathing is difficult, 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.
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.
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P362	Take off contaminated clothing and wash before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
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

**Section 3: Composition/information on ingredients**

**Substances**

Substance Identifications: MAPEFLOOR CPU+/B

**Mixtures**

N.A.

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

Qty	Name	Ident. Numb.	Classification
≥ 100 %	Formaldehyde, oligomeric reaction products with aniline and phosgene (oligomeric MDI)	CAS:32055-14-4 EC:500-079-6	6.1D (inhalation), H332 6.4A, H319 6.1E (respiratory tract irritant), H335 6.3A, H315 6.5A, H334 6.5B, H317 6.9B (Repeated exposure), H373 6.7B, H351  Specific Concentration Limits: C ≥ 5%: Eye Irrit. A H319 C ≥ 5%: Skin Irrit. A H315 C ≥ 5%: STOT SE (Resp. Irrit.) H335 C ≥ 0.1%: Resp. Sens. H334

**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).

Treatment:

(see paragraph 4.1)

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

Eye irritation

Eye damages

Skin Irritation

Erythema

**Section 5: Fire-fighting measures**

**Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

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.

**Section 6: Accidental release measures**

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

Wear personal protection equipment.

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

Provide adequate ventilation.

Use appropriate respiratory protection.

**Environmental precautions**

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

Limit leakages with earth or sand.

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

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

Retain contaminated washing water and dispose it.

**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.

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.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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## Section 8: Exposure controls/personal protection

### Workplace Exposure Standards

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

Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Exposure Route: Soil; PNEC Limit: 1 mg/kg

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

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 0.05 mg/m<sup>3</sup>; Consumer: 0.025 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects  
Worker Industry: 28.7 mg/cm<sup>2</sup>; Consumer: 17.2 mg/cm<sup>2</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 0.1 mg/m<sup>3</sup>; Consumer: 0.05 mg/m<sup>3</sup>

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 50 mg/kg; Consumer: 25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 0.05 mg/m<sup>3</sup>; Consumer: 0.025 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Industry: 0.1 mg/m<sup>3</sup>; Consumer: 0.05 mg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects  
Consumer: 20 mg/kg

#### 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:

Suitable materials for safety gloves; AS/NZS 2161.10:

Polychloroprene - CR: thickness  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

Nitrile rubber - NBR: thickness  $\geq 0,35$ mm; breakthrough time  $\geq 480$ min.

Butyl rubber - IIR: thickness  $\geq 0,5$ mm; breakthrough time  $\geq 480$ min.

Fluorinated rubber - FKM: thickness  $\geq 0,4$ mm; breakthrough time  $\geq 480$ min.

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

Thermal Hazards:

N.A.

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## Section 9: Physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid light brown

Odour: Characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: N.A.

Flammability (Solid, Gas) N.A.

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

Vapour pressure: N.A.

Vapour density: N.A.  
Relative density: 1,19 g/cm<sup>3</sup>  
Solubility in water: partly soluble  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: 107,50 cPs  
Kinematic viscosity: N.A.  
Particle characteristics: No data available

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## Section 10: Stability and reactivity

### Reactivity

Data not available.

### Chemical stability

Data not available.

### Possibility of hazardous reactions

None.

### Conditions to avoid

Data not available.

### Incompatible materials

Data not available.

### Hazardous decomposition products

None.

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## Section 11: Toxicological information

### Information on toxicological effects

#### Toxicological Information of the Substance

a) acute toxicity	The product is classified: 6.1D (inhalation)(H332) LD50 Oral Rat > 2000 mg/kg LC50 Inhalation Rat = 0.31 mg/l 4h LD50 Skin Rabbit > 9400 mg/kg
b) skin corrosion/irritation	The product is classified: 6.3A(H315) Skin Irritant Skin Rabbit Positive
c) serious eye damage/irritation	The product is classified: 6.4A(H319)
d) respiratory or skin sensitisation	The product is classified: 6.5A(H334)
e) germ cell mutagenicity	Not Classified. Based on available data, the classification criteria are not met
f) carcinogenicity	The product is classified: 6.7B(H351.G)
g) reproductive toxicity	Not Classified. Based on available data, the classification criteria are not met NOAEL Inhalation Rat = 12 mg/m <sup>3</sup>
h) STOT-single exposure	The product is classified: 6.1E (respiratory tract irritant)(H335)
i) STOT-repeated exposure	The product is classified: 6.9B (Repeated exposure)(H373.G)
j) aspiration hazard	Not Classified. Based on available data, the classification criteria are not met Respiratory Tract Irritant Rabbit Negative

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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 Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

a) Aquatic acute toxicity : EC50 Daphnia = 1000 mg/L 24

- a) Aquatic acute toxicity : LC50 Algae > 1640 mg/L 72
- a) Aquatic acute toxicity : EC50 Fish > 1000 mg/L 96
- b) Aquatic chronic toxicity : NOEC Daphnia > 10 mg/L - 21 d
- d) Terrestrial toxicity : NOEC > 1000 mg/kg - 14 d
- e) Plant toxicity : NOEC > 1000 mg/kg - 14 d

**Persistence and degradability**

N.A.

**Bioaccumulative potential**

N.A.

**Mobility in soil**

N.A.

**Other adverse effects**

N.A.

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**Section 13: Disposal considerations**

**Disposal methods**

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

**Special precautions to be taken during disposal**

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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**Section 14: Transport information**

Not classified as dangerous in the meaning of transport regulations.

**UN number**

N.A.

**UN proper shipping name**

N.A.

**Transport hazard class(es)**

N.A.

**Packing group, if applicable**

N.A.

**Environmental hazards**

N.A.

No

**Special precautions for user**

Road and Rail (ADR-RID):

N.A.

ADR-Hazard identification number: NA

Air (IATA):

N.A.

Sea (IMDG):

N.A.

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**Section 15: Regulatory information**

**HSNO Approval**

HSNO approval number and group standard title:

**HSNO Controls****Approved Handler**

No data available

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

No substances listed.

**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).

**Section 16: Other information**

Safety Data Sheet dated: 20/02/2024 - version 1

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

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

Code	Description
6.1D (inhalation)	6.1D - Substances that are acutely toxic - Harmful (inhalation).
6.1E (respiratory tract irritant)	6.1E - Respiratory tract irritant.
6.3A	6.3A - Substances that are irritating to the skin.
6.4A	6.4A - Substances that are irritating to the eye.
6.5A	6.5A - Substances that are respiratory sensitisers.
6.5B	6.5B - Substances that are contact sensitisers.
6.7B	6.7B - Substances that are suspected human carcinogens.
6.9B (Repeated exposure)	6.9B - Substances that are harmful to human target organs or systems (Repeated exposure).

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.