

## Safety Data Sheet

### ULTRABOND TURF PU 1K

Safety Data Sheet dated: 27/11/2020 - version 1



## Section 1. Identification of the substance and supplier

### Product identifier

Mixture identification:

Trade name: ULTRABOND TURF PU 1K

Trade code: 902333

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

Recommended use: Polyurethane-based adhesive

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 2001

### HSNO classification:

- 3.1D H227 - Combustible liquid.
- 6.3A H315 - Causes skin irritation.
- 6.4A H319 - Causes serious eye irritation.
- 6.5A H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- 6.5B H317 - May cause an allergic skin reaction.
- 6.7B H351.G - Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
- 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.

### Hazard information

#### Pictograms and Signal Words



Danger

### Hazard statements:

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- 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:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P260 Do not breathe mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- 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+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.
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.
P333+P313	If skin irritation or rash 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.
P363	Wash contaminated clothing before reuse.
P370+P378	In case of fire: Use a foam 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

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

**Substances**

N.A.

**Mixtures**

Mixture identification: ULTRABOND TURF PU 1K

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

Quantity	Name	Ident. Numb.	Classification
≥10 - <20 %	Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	CAS:26447-40-5 EC:247-714-0 Index:615-005-00-9	6.1D (inhalation), H332; 6.3A, H315; 6.4A, H319; 6.5A, H334; 6.5B, H317; 6.7B, H351; 6.1E (respiratory tract irritant), H335; 6.9B (Repeated exposure), H373

**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

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## **Section 5. Fire-fighting measures**

### **Extinguishing media**

Suitable extinguishing media:

In case of fire: Use a foam 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.

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.

Exercise the greatest care when handling or opening the container.

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.

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**

No data available

### **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 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: paste Green

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: 62 °C (144 °F)

Flammability (Solid, Gas): N.A.

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

Vapour pressure: N.A.

Vapour density: N.A.

Relative density: 1.34 g/cm<sup>3</sup>

Solubility in water: Insoluble

Solubility in oil: partly soluble

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: 43.00 cPs

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## 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:

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

a) acute toxicity	LD50 Skin Rabbit > 10000 mg/kg
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LC50 Inhalation Rat = 490 mg/m<sup>3</sup> 4h

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
- Toxicological kinetics, metabolism and distribution information
- i) STOT-repeated exposure
  - j) aspiration hazard

## 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
Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	CAS: 26447-40-5 - EINECS: 615-005-00-9 - INDEX: 247-714-0	d) Terrestrial toxicity : LC50 Worm Eisenia foetida > 1000 mg/kg 14d IUCLID
		d) Terrestrial toxicity : NOEC Worm Eisenia foetida >= 1000 mg/kg 14d 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

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

NZS-Subsidiary risks: N.A.

NZS-Special Dispositions: N.A.

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:

HSR002680 - Surface Coatings and Colourants (Combustible, Toxic [6.7]) 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
H227	Combustible liquid.
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.
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.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled, in contact with skin and if swallowed.

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

Code	Description
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Date	27/11/2020	Production Name	ULTRABOND TURF PU 1K
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- 3.1D Flammable liquid - low hazard.
- 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.
- 6.5A Substances that are respiratory sensitisers.
- 6.5B Substances that are contact sensitisers.
- 6.7B Substances that are suspected human carcinogens.
- 6.9B (Repeated exposure) 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.