

Page 1/9

## Safety Data Sheet in accordance with HSNO

Printing date 16.01.2019 Version number 42 Revision: 16.01.2019

#### SECTION 1: Identification of the substance or mixture and of the supplier

· 1.1 Product identifier

· Trade name Okamul PU; Komp. B

· 1.2 Relevant identified uses of the substance or mixture

and uses advised against Do not use for splashing / spraying

none

· Sector of Use SU22 Professional uses: Public domain (administration,

education, entertainment, services, craftsmen)

· Application of the substance

/ the mixture Hardening agent/ Curing agent

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Polyflor New Zealand

2 Narek Place Manukau 2104 New Zealand Phone: 0800765935 sales@polyflor.co.nz

· Informing department: Laboratory, departments of environmental protection and labor

protection

· 1.4 Emergency telephone

number: Poison Information Center Freiburg Tel.: +49(0)761/ 19240

(24h German and English)

#### SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



#### health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Carc. 2 H351 Suspected of causing cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

· Determined by Kiesel using

GHS/HSNO Criteria 6.1D, 6.1E, 6.3A, 6.4A, 6.5A, 6.5B, 6.7B, 6.9B

- · 2.2 Label elements
- · Labelling according to

Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

(Contd. on page 2)

(Contd. of page 1)

## Safety Data Sheet in accordance with HSNO

Printing date 16.01.2019 Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

· Hazard pictograms

**\( \lambda \)** 

GHS07 GHS08

· Signal word Danger

· Hazard-determining

components of labelling: diphenylmethanediisocyanate,isomeres and homologues

· Hazard statements H312+H332 Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.
 H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged

or repeated exposure.

Precautionary statements P261 Avoid breathing dust/fume/gas/mist/

vapours/spray.

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 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.

P342+P311 If experiencing respiratory symptoms: Call a

POISON CENTER/doctor/.

P501 Dispose of contents/container in

accordance with local/regional/national/

international regulations.

· Additional information: Restricted to professional users

EUH204 Contains isocyanates. May produce an allergic

reaction.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.· vPvB: Not applicable.

#### SECTION 3: Composition/Information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Dangerous components:

CAS: 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues

50-100%

Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373

Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335

· Additional information

Have also a look to point 8 "Exposure controls and

personalprotection"

For the wording of the listed hazard phrases refer to section

16.

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

• General information (Contd. on page 3)

**Printing date 16.01.2019** Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

(Contd. of page 2)

· After inhalation Keep patient calm, remove to fresh air, summon medical help.

> Symptoms can appear later. Provide plenty of fresh air.

In case of unconsciousness bring patient into stable side

position for transport.

· After skin contact Instantly wash with water and soap and rinse thoroughly. Rinse immediately and thoroughly with eyelids open for 15 · After eye contact

minutes under running water, consult eye specialist.

· After swallowing In case of persistent symptoms consult doctor.

· 4.2 Most important symptoms and effects, both acute and

delayed

No further relevant information available.

· 4.3 Indication of any

immediate medical attention

and special treatment needed No further relevant information available.

#### SECTION 5: Fire fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents Use fire fighting measures that suit the environment.

· 5.2 Special hazards arising from the substance or

mixture

Formation of toxic gases is possible during heating or in case

of fire.

No further relevant information available.

· 5.3 Advice for firefighters

· Protective equipment: Wear non-circulation breathing equipment and chemical-

protective clothing. Do not inhale explosion gases or fire

fumes.

#### SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

emergency procedures · 6.2 Environmental

Ensure adequate ventilation

precautions:

· 6.3 Methods and material for

No special measures required.

containment and cleaning up: Take-up with liquid binding material (sand, diatomaceous earth, acid binding agent, universal binding agent).

Dispose of contaminated material as waste according to item

13.

· 6.4 Reference to other

sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection

equipment.

See Section 13 for information on disposal.

#### SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling

Do not leave the container standing open.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

Prevent formation of aerosols.

(Contd. on page 4)

**Printing date 16.01.2019** Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

(Contd. of page 3)

· Information about protection

against explosions and fires: Keep breathing equipment ready. · 7.2 Conditions for safe storage, including any incompatibilities

· Requirements to be met by

storerooms and containers: No special requirements.

· Information about storage in

one common storage facility: Not required.

· Further information about

storage conditions: Keep container tightly sealed.

· 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

· Additional information about

design of technical systems: No further data; see item 7.

· 8.1 Control parameters

on comand parame	
· Components with o	critical values that require monitoring at the workplace:
CAS: 9016-87-9 dip	henylmethanediisocyanate,isomeres and homologues
WES (New Zealand	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ sen, vapours, mist, dust; as -NCO
NES (Australia)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen, as -NCO
WES (Australia)	Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³

· Additional information: The lists that were valid during the compilation were used as

basis.

Sen, as -NCO

· 8.2 Exposure controls

· Personal protective equipment

· General protective and

hygienic measures Do not eat, drink or smoke while working.

> Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work.

Store protective clothing separately. Avoid contact with the eyes and skin.

· Breathing equipment: In case of brief exposure or low pollution use breathing filter

> apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· Protection of hands: Protective gloves.

The glove material has to be impermeable and resistant to the

product/ the substance/ the preparation.

Selection of the glove material on consideration of the

penetration times, rates of diffusion and the degradation

· Material of gloves Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

· Penetration time of glove

material The exact break trough time has to be found out by the

manufacturer of the protective gloves and has to be observed.

(Contd. on page 5)

Printing date 16.01.2019 Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

· Eye protection: Tightly sealed safety glasses.

(Contd. of page 4)

#### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· Appearance:

Form: Fluid Colour: Brown

Smell: earthy, slightly musty.Odour threshold: Not determined.

· pH-value: n.a.

· Change in condition

Melting point/freezing point: 41 °C

Initial boiling point and boiling range: >200 °C ((DIN))

· Flash point: > 100 °C ((DIN))

· Inflammability (solid, gaseous) Not applicable.

· Ignition temperature: 400 °C ((DIN))

· Decomposition temperature: Not determined.

· Self-inflammability: Product is not selfigniting.

· Explosive properties: Product is not explosive.

· Critical values for explosion:

Lower: Not determined. Upper: Not determined.

· Steam pressure at 25 °C: 0.0002 hPa ((DIN))

Density at 20 °C
 Relative density
 Vapour density
 Evaporation rate
 1.275 g/cm³
 Not determined.
 Not determined.

· Solubility in / Miscibility with

Water: less miscible

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic at 20 °C: 220 mPas kinematic: Not determined.

• 9.2 Other information No further relevant information available.

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.3 Possibility of hazardous

reactions No dangerous reactions known

10.4 Conditions to avoid No further relevant information available.
 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous

decomposition products: None known.

NZ

**Printing date 16.01.2019** Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

(Contd. of page 5)

#### SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity Harmful in contact with skin or if inhaled.

· LD/LC50 values that are relevant for classification:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

Oral LD50 >10,000 mg/kg (rat) Dermal LD50 >10,000 mg/kg (rab) Inhalative LC50/4 h 0.493 mg/l (rat)

· Primary irritant effect:

· Skin corrosion/irritation Causes skin irritation. · Serious eye damage/irritation Causes serious eye irritation.

· Respiratory or skin

sensitisation May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

May cause an allergic skin reaction.

· Subacute to chronic toxicity: Subacute-chronical toxicity

Length of trials: 2 years

Application: inhalative (rat): > 0.2 < I mg/m3 aerosol (PMDI). Findings: when inhaled, the substance caused clear local

irritation in the rats with epithelium

damage.

Application: inhalative (rat): 6 mg/m3 aerosol (PMDI).

Findings: when inhalted, the substance caused clear local

irritation in the rats with epithelium

damage. Some of the animals also suffered local tumour

growth after this.

· CMR effects (carcinogenity, mutagenicity and toxicity for

reproduction)

Carc.2 · Germ cell mutagenicity Based on available data, the classification criteria are not met.

Suspected of causing cancer. · Carcinogenicity

· Reproductive toxicity Based on available data, the classification criteria are not met.

· STOT-single exposure May cause respiratory irritation.

May cause damage to organs through prolonged or repeated · STOT-repeated exposure

exposure.

Based on available data, the classification criteria are not met. · Aspiration hazard

#### SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

≥1,000 mg/l (Belebtschlammbakterien) LC 50 (96h) >1,000 mg/l (Danio rerio (Zebrabärbling))

>1,000 mg/l (Akute Fischtoxizität (Zebrafisch))

· 12.2 Persistence and

No further relevant information available. degradability

· 12.3 Bioaccumulative

No further relevant information available. potential No further relevant information available. · 12.4 Mobility in soil

(Contd. on page 7)

**Printing date 16.01.2019** Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

· Additional ecological information:

(Contd. of page 6)

· General notes: Water hazard class 1 (Self-assessment): slightly hazardous

for water.

Do not allow undiluted product or large quantities of it to

reach ground water, water bodies or sewage system.

· 12.5 Results of PBT and vPvB assessment · PBT: Not applicable. · vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

#### SECTION 13: Disposal considerations

· 13.1 Waste treatment

methods Must be forwarded for special treatment in accordance with

local authority regulations, e.g. suitable incineration plant.

· Recommendation Disposal according to official regulations

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

#### SECTION 14: Transport information

OLOTTON 14. Transport information		
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
· Transport/Additional information:	Not classified as dangerous in the meaning of transport regulations.	
· UN "Model Regulation":	Void	

### SECTION 15: Regulatory information

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

This substance is to be managed using the conditions specified in an applicable Group Standard

**HSR Number Group Standard** 

HSR002624 2006

N.O.S. (Subsidiary Hazard) Group Standard

(Contd. on page 8)

**Printing date 16.01.2019** 

Version number 42

Trade name Okamul PU; Komp. B

(Contd. of page 7)

Revision: 16.01.2019

HSR002535 Compressed Gas Mixtures (Subsidiary Hazard) Group Standard 2006

HSR002596 Laboratory Chemicals and Reagent Kits Group Standard 2006

HSR002530 Cleaning Products (Subsidiary Hazard) Group Standard 2006

HSR002585 Fuel Additives (Subsidiary Hazard) Group Standard 2006

HSR002519 Aerosols (Subsidiary Hazard) Group Standard 2006

HSR002521 Animal Nutritional and Animal Care Products Group Standard 2006

HSR002606 Lubricants, Lubricant Additives, Coolants and Anti-freeze Agents (Subsidiary Hazard) Group Standard 2006 HSR002644 Polymers (Subsidiary Hazard) Group Standard 2006

HSR002647 Reagent Kits Group Standard 2006

HSR002612 Metal Industry Products (Subsidiary Hazard) Group Standard 2006

HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006

HSR002503 Additives, Process Chemicals and Raw Materials (Subsidiary Hazard) Group Standard 2006

HSR002638 Photographic Chemicals (Subsidiary Hazard) Group Standard 2006

HSR002565 Embalming Products (Subsidiary Hazard) Group Standard 2006

HSR002578 Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2006

HSR002558 Dental Products (Subsidiary Hazard) Group Standard 2006

HSR002684 Water Treatment Chemicals (Subsidiary Hazard) Group Standard 2006

HSR002573 Fire Fighting Chemicals Group Standard 2006 HSR100425 Pharmaceutical Active Ingredients Group Standard 2010

HSR002600 Leather and Textile Products (Subsidiary Hazard) Group Standard 2006

HSR002571 Fertilisers (Subsidiary Hazard) Group Standard 2006

HSR002648 Refining Catalysts Group Standard 2006

HSR002653 Solvents (Subsidiary Hazard) Group Standard 2006

HSR002544 Construction Products (Subsidiary Hazard) Group Standard 2006

HSR002549 Corrosion Inhibitors (Subsidiary Hazard) Group Standard 2006

HSR002552 Cosmetic Products Group Standard 2006

HSR100757 Veterinary Medicine (Limited Pack Size, Finished Dose) Standard 2012

HSR100758 Veterinary Medicines (Non-dispersive Closed System Application) Group Standard 2012

HSR100759 Veterinary Medicines (Non-dispersive Open System Application) Group Standard 2012

HSR100628 Straight-chained Lepidopteran Sex Pheromone Group Standard 2012

· New Zealand Inventory of Chemicals

All ingredients are listed.

(Contd. on page 9)

**Printing date 16.01.2019** Version number 42 Revision: 16.01.2019

Trade name Okamul PU; Komp. B

(Contd. of page 8)

· New Zealand HSNO Hazard Classes and Categorie

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

#### SECTION 16: Other information

This information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. It does not constitute a legal warranty regulations. The delivery specifications are contained in the corresponding product sheet.

· Relevant phrases 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.

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of

Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of

Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical

Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity - Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation - Category 1

Carc. 2: Carcinogenicity - Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

· \* Data compared to the previous version altered.

· Comment The information is based on our knowledge we do have so far.

However it is not a confirmation of productfeatures and does not establish contractual legal relarionship. Use, operation

and processing are the responsibility of the customer.