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Safety Data Sheet according to WHS Regulations

Printing date 25.05.2023 Version number 56 Revision: 25.05.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

· Trade name Okamul PU Komp. B

· Relevant identified uses of the substance or mixture and

uses advised against Do not use for splashing / spraying

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

education, entertainment, services, craftsmen)

· Application of the substance

/ the mixture Hardening agent/ Curing agent

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: Kiesel Bauchemie GmbH & Co. KG

Wolf-Hirth-Str. 2

D-73730 Esslingen

Tel.:+49(0)711/93134-0 Fax:+49(0)711/93143-140 E-Mail: sida@kiesel.com

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Dandenong South VIC 3175

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

protection

· Emergency telephone

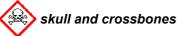
number:

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

(24h German and English)

2 Hazard(s) Identification

· Classification of the substance or mixture



Acute Tox. 1 H330 Fatal if inhaled.

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H334 May cause allergy or asthma symptoms Resp. Sens. 1

or breathing difficulties if inhaled.

H351 Suspected of causing cancer. Carc. 2

STOT RE 1 H372 Causes damage to organs through

prolonged or repeated exposure.



H315 Causes skin irritation. Skin Irrit. 2

Serious eye damage/irritation - Category 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation.

· Label elements

The product is classified and labelled according to the · GHS label elements

Globally Harmonised System (GHS).

· Hazard pictograms



GHS06 GHS08

· Signal word Danger

· Hazard-determining

components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

· Hazard statements Fatal if inhaled.

Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

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

Causes damage to organs through prolonged or repeated

exposure.

Do not breathe dust/fume/gas/mist/vapours/spray. · Precautionary statements

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the

workplace.

Wear protective gloves/protective clothing/eye protection/face

protection.

Wear respiratory protection.

IF ON SKIN: Wash with plenty of water.

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IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical advice/attention if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/

regional/national/international regulations.

Restricted to professional users

· Additional information:

· Other hazards

· Results of PBT and vPvB assessment

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

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Dangerous components:

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

*≥*50-*≤*100%

Acute Tox. 1. H330

🗞 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 1, H372

Skin Irrit. 2, H315; Serious eye damage/irritation – Category

2A, H319; Skin Sens. 1, H317; STOT SE 3, H335

· Additional information

See also information on "8 Exposure controls and personal

protective equipment".

For the wording of the listed hazard phrases refer to section

16.

4 First Aid Measures

• General information symptoms of intoxication could develop after hours, therefore

medical surveillance at least for 48 h after the incident.

Immediately remove contaminated clothing.

Remove breathing apparatus only after soiled clothing has

been completely removed.

In case of irregular breathing or respiratory arrest provide

artificial respiration.

If you feel unwell, seek medical advice.

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

Symptoms can appear later.

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Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side

position for transport.

Seek medical treatment in case of complaints.

Instantly wash with water and soap and rinse thoroughly. · After skin contact · After eye contact Rinse opened eye for several minutes under running water. If

symptoms persist, consult doctor.

· After swallowing Inform doctor. Do not give milk or fatty oils.

rinse out mouth

· Information for doctor

· Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special

treatment needed

In cases of irritation to the lungs, initial treatment with

Dexamethason metered aerosol.

5 Fire Fighting Measures

· Suitable extinguishing agents CO2, extinguishing powder or water jet. Fight larger fire with

alcohol-resistant foam.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable

extinguishing agents

Water with a full water jet.

· Special hazards arising from

the substance or mixture

Formation of poisonous gases during heating or in fires.

No further relevant information available.

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

protective clothing. Do not inhale explosion gases or fire

fumes.

6 Accidental Release Measures

· Personal precautions, protective equipment and

emergency procedures

Ensure adequate ventilation Put on breathing apparatus.

· Environmental precautions:

No special measures required.

· Methods and material for

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

· Reference to other sections See Section 7 for information on safe handling

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See Section 8 for information on personal protection

equipment.

See Section 13 for information on disposal.

7 Handling and Storage

·Handling

· 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.

· Information about protection

against explosions and fires: Keep breathing equipment ready.

· Storage

· Requirements to be met by

storerooms and containers: No special requirements.

· Information about storage in

one common storage facility: Store away from water.

· Further information about

storage conditions: Keep container tightly sealed.

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

8 Exposure controls and personal protection

· Additional information about

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

· Components with critical values that require monitoring at the workplace:

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

WES Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen, as -NCO

· Additional information: CAS 101-68-8 is an MDI isomer that is part of CAS 9016-87-9.

· 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: Breathing equipment required in the event of inhalable dust,

insufficient ventilation and elevated temperatures.

Suitable respiratory protection for low concentrations or short-term exposure: Particle filter EN 143 type P2 (medium

retention capacity (solid and liquid pollutant particles)).

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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

· Eve protection:

· Body protection:

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

manufacturer of the protective gloves and has to be observed.

Tightly sealed safety glasses.

Protective work clothing.

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· Appearance:

· Form: Fluid · Colour: Brown

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

· pH-value: Mixture reacts violently with water.

· Change in condition

· Melting point/freezing point: Beginning partial crystallisation from 10°C

Initial boiling point and boiling range: >260 °C (DIN)
 Flash point: >150 °C (DIN)
 Inflammability (solid, gaseous) Not applicable.
 Auto-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)

Vapour pressure at 50 °C:
Density at 20 °C
Relative density
Vapour density
Evaporation rate
3 hPa
1.23 g/cm³
Not determined
Not determined
Not determined

· Solubility in / Miscibility with

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

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· Viscosity:

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

· Solvent content:

50-100 % · Solids content: · Volatile Organic Compounds $0.0 \, g/l$ 0.00 %

· Other information

No further relevant information available.

10 Stability and Reactivity

· Reactivity No further relevant information available.

· Possibility of hazardous

reactions No dangerous reactions known

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

· Hazardous decomposition

products: None known.

11 Toxicological Information

· Information on toxicological effects

· Acute toxicity Fatal 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 (Rabbit)

Inhalative LC50/4 h 0.493 mg/l (Rat)

· 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.

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

· Carcinogenicity Suspected of causing cancer.

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

· STOT-single exposure May cause respiratory irritation.

· STOT-repeated exposure Causes damage to organs through prolonged or repeated

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

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· Subacute to chronic toxicity: Duration of trials: 2 years:

Application: inhalative/rats/>0.2,<1 mg/m3/ aerosol (PMDI) Result: by inhalative adsorption, the substance causes extensive local irritation in rats with epithelial damage. In addition to this, local tumors developed following this

damage in some animals. 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.

12 Ecological Information

· 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 (Acute fish toxicity (zebrafish))

· Persistence and degradability No further relevant information available.

· Behaviour in environmental systems:

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

· Additional ecological information:

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

Do not allow undiluted product or large quantities of it to

reach ground water, water bodies or sewage system.

· Results of PBT and vPvB assessment

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

· Other adverse effects No further relevant information available.

13 Disposal considerations

· 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

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· Uncleaned packagings:

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

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

15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



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· Signal word Danger

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

· Hazard statements Fatal if inhaled. Causes skin irritation.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

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

Causes damage to organs through prolonged or repeated

exposure.

· Precautionary statements Do not breathe dust/fume/gas/mist/vapours/spray.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the

workplace.

Wear protective gloves/protective clothing/eye protection/face

protection.

Wear respiratory protection.

IF ON SKIN: Wash with plenty of water.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsina.

Get medical advice/attention if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/

regional/national/international regulations.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients are included

· National regulations

· Information about limitation

of use:

Employment restrictions concerning young persons must be

observed.

Employment restrictions concerning pregnant and lactating

women must be observed.

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



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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.

H330 Fatal if inhaled.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

H335 May cause respiratory irritation. H351 Suspected of causing cancer.

H372 Causes damage to organs through prolonged or

repeated exposure.

· Department issuing data specification sheet:

· Abbreviations and acronyms: ADR: Accord relatif au transport international 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

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. 1: Acute toxicity – Category 1

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Serious eye damage/irritation - Category 2A: Serious eye damage/eye

irritation - Category 2A

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 1: Specific target organ toxicity (repeated exposure) – Category 1

· * 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.