

Safety Data Sheet

According to Regulation (EU) 2015/830

Date of issue: 19.06.2017

Revision date:

Supersedes:

Version: 00

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : WHITECHEM PU RB 103
Product code : PU RB 103
Type of product : Adhesives, binding agents
Product group : Trade product

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Intended for general public

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

AKDE KİMYA END. SAN. ve TİC. LTD. ŞTİ.
Yeşilbayır mahallesi Şimşir sokak No:20
34555 İSTANBUL - TURKEY
T +90 2127710622 - F +90 2127710624
info@akde.net - www.akde.net / www.whitechem.com.tr

1.4. Emergency telephone number

Emergency number : +90 2127711371 (9:00 am - 17:00 pm GMT+2)

| Country | Organisation/Company | Address | Emergency number | Comment |
|----------------|---|---|---|---------|
| United Kingdom | National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre | Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle | 0844 892 0111 (UK only, Monday to Friday, 08.00 to 18.00 hours) | |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | | |
|---|------|--------------------|
| Skin corrosion/irritation, Category 2 | H315 | Calculation method |
| Serious eye damage/eye irritation, Category 2 | H319 | Calculation method |
| Sensitisation — Respiratory, Category 1 | H334 | Calculation method |
| Sensitisation — Skin, Category 1 | H317 | Calculation method |
| Hazardous to the aquatic environment — Chronic Hazard, Category 3 | H412 | Calculation method |

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger
Hazardous ingredients : Aliphatic isocyanates
Hazard statements (CLP) : 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

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| | |
|------------------------------------|--|
| Precautionary statements (CLP) | <p>H412 - Harmful to aquatic life with long lasting effects</p> <p>P102 - Keep out of reach of children</p> <p>P261 - Avoid breathing fume, gas, mist, vapours</p> <p>P280 - Wear eye protection, face protection, protective clothing, protective gloves</p> <p>P284 - [In case of inadequate ventilation] wear respiratory protection</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of water</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</p> <p>P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation</p> |
| Security closing plug for children | : Not applicable |
| Tactile warning | : Applicable |

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---------------------------------------|--------------------|---|---|
| Aliphatic isocyanates | | 8 - 10 | Acute Tox. 3 (Inhalation), H331 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 2, H411 |
| Specific concentration limits: | | | |
| Name | Product identifier | Specific concentration limits | |
| Aliphatic isocyanates | | (C >= 0.5) Resp. Sens. 1, H334 (C >= 0.5) Skin Sens. 1, H317 | |

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor. |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------------------------------|--|
| Symptoms/injuries after inhalation | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Symptoms/injuries after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/injuries after eye contact | : Eye irritation. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
|------------------------------|--|

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5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| WHITECHEM PU RB 103 | | |
|---------------------|---|--|
| Austria | Local name | Isophorondiisocyanat |
| Austria | MAK (mg/m ³) | 0.046 mg/m ³ |
| Austria | MAK (ppm) | 0.005 ppm |
| Austria | MAK Short time value (mg/m ³) | 0.092 mg/m ³ |
| Austria | MAK Short time value (ppm) | 0.01 ppm |
| Austria | Remark (AT) | Sah |
| Belgium | Local name | Diisocyanate d'isophorone |
| Belgium | Limit value (mg/m ³) | 0.046 mg/m ³ |
| Belgium | Limit value (ppm) | 0.005 ppm |
| Belgium | Remark (BE) | D |
| Bulgaria | Local name | Изофорон диизоцианат |
| Bulgaria | OEL TWA (mg/m ³) | 0.1 mg/m ³ |
| Denmark | Local name | 3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanat (2005) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0.045 mg/m ³ |
| Denmark | Grænseværdie (langvarig) (ppm) | 0.005 ppm |
| Estonia | Local name | Isoforoondiisotsüanaat |
| Estonia | OEL TWA (mg/m ³) | 0.05 mg/m ³ |
| Estonia | OEL TWA (ppm) | 0.005 ppm |

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| | | |
|-------------|---|--|
| Estonia | OEL STEL (mg/m ³) | 0.09 mg/m ³ |
| Estonia | OEL STEL (ppm) | 0.01 ppm |
| France | Local name | Diisocyanate d'isophorone (3) |
| France | VME (mg/m ³) | 0.09 mg/m ³ |
| France | VME (ppm) | 0.01 ppm |
| France | VLE (mg/m ³) | 0.18 mg/m ³ |
| France | VLE (ppm) | 0.02 ppm |
| Germany | Local name | 3-Isocyanatmethyl-3,5,5-trimethylcyclohexylisocyanat |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 0.046 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (ppm) | 0.005 ppm |
| Germany | Remark (TRGS 900) | DFG, 12, Sa |
| Greece | OEL TWA (mg/m ³) | 0.09 mg/m ³ |
| Greece | OEL TWA (ppm) | 0.01 ppm |
| Greece | OEL STEL (mg/m ³) | 0.18 mg/m ³ |
| Greece | OEL STEL (ppm) | 0.02 ppm |
| Ireland | Local name | Isophorone diisocyanate (IPDI) (as -NCO) |
| Ireland | OEL (8 hours ref) (ppm) | 0.005 ppm |
| Ireland | Notes (IE) | Sen |
| Lithuania | Local name | Izoforono diizocianatas (IPDI) |
| Lithuania | IPRV (mg/m ³) | 0.05 mg/m ³ |
| Lithuania | IPRV (ppm) | 0.005 ppm |
| Lithuania | NRV (mg/m ³) | 0.09 mg/m ³ |
| Lithuania | NRV (ppm) | 0.01 ppm |
| Poland | Local name | Izocyjanian 3-izocyjanianometylo-3,5,5-trimetylocykloheksylu (diizocyjanian izoforonu) |
| Poland | NDS (mg/m ³) | 0.04 mg/m ³ |
| Portugal | Local name | Diisocianato de isoforona |
| Portugal | OEL TWA (ppm) | 0.005 ppm |
| Slovenia | Local name | 3-izocianatometil-3,5,5-trimetilcikloheksilizocianat (izoforondiizocianat) |
| Slovenia | OEL TWA (mg/m ³) | 0.092 mg/m ³ |
| Slovenia | OEL TWA (ppm) | 0.01 ppm |
| Slovenia | OEL STEL (mg/m ³) | 0.092 mg/m ³ |
| Slovenia | OEL STEL (ppm) | 0.01 ppm |
| Spain | Local name | 3-Isocianometil-3,5,5-trimetilciklohexilizocianato (Diisocianato de isoforona) |
| Spain | VLA-ED (mg/m ³) | 0.046 mg/m ³ |
| Spain | VLA-ED (ppm) | 0.005 ppm |
| Spain | Notes | Sen (Sensibilizante. Véase Apartado 6.) |
| Sweden | Local name | isophorone diisocyanate |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0.018 mg/m ³ |
| Sweden | nivågränsvärde (NVG) (ppm) | 0.002 ppm |
| Sweden | takgränsvärde (TGV) (mg/m ³) | 0.046 mg/m ³ |
| Sweden | takgränsvärde (TGV) (ppm) | 0.005 ppm |
| Norway | Local name | Isoforondiisocyanat |
| Norway | Grenseverdier (AN) (mg/m ³) | 0.045 mg/m ³ |
| Norway | Grenseverdier (AN) (ppm) | 0.005 ppm |
| Norway | Merknader (NO) | A |
| Australia | Local name | Isophorone diisocyanate |
| Australia | TWA (mg/m ³) | 266 mg/m ³ |
| Australia | TWA (ppm) | 50 ppm |
| USA - ACGIH | Local name | Isophorone diisocyanate |
| USA - ACGIH | ACGIH TWA (ppm) | 0.005 ppm |
| USA - ACGIH | Remark (ACGIH) | Resp sens |

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

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| | |
|---------------------------------|-------------------------------------|
| Hand protection | : Protective gloves |
| Eye protection | : Safety glasses |
| Skin and body protection | : Wear suitable protective clothing |
| Respiratory protection | : Wear respiratory protection |
| Environmental exposure controls | : Avoid release to the environment. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : Transparent. |
| Odour | : Characteristic. |
| Odour threshold | : No data available |
| pH | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 200 °C |
| Flash point | : > 200 °C |
| Auto-ignition temperature | : > 530 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : < 0.01 Pa |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Density | : 1 - 1.05 g/cm ³ |
| Solubility | : No data available |
| Log Pow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 4500 - 5000 Pa.s |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------------|---|
| Acute toxicity | : Not classified |
| 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 | : Not classified |
| Carcinogenicity | : Not classified |

| | |
|--|------------------|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

| | |
|---------------|------------------|
| UN-No. (ADR) | : Not applicable |
| UN-No. (IMDG) | : Not applicable |
| UN-No. (IATA) | : Not applicable |
| UN-No. (ADN) | : Not applicable |
| UN-No. (RID) | : Not applicable |

14.2. UN proper shipping name

| | |
|-----------------------------|------------------|
| Proper Shipping Name (ADR) | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN) | : Not applicable |
| Proper Shipping Name (RID) | : Not applicable |

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

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IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment — Chronic Hazard, Category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Resp. Sens. 1 | Sensitisation — Respiratory, Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Sensitisation — Skin, Category 1 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H315 | Causes skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H331 | Toxic if inhaled |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| H335 | May cause respiratory irritation |
| H411 | Toxic to aquatic life with long lasting effects |
| H412 | Harmful to aquatic life with long lasting effects |

SDS EU WHITECHEM

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product