

Page 1/9

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.12.2022 Version number 7 (replaces version 6) Revision: 14.12.2022

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

#### 1.1 Product identifier

## Trade name VERGUSS PUR / AW 2K, KOMP. B

**Article number: 7550, 7641** 

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

No further relevant information available.

Application of the substance / the mixture Sealing

## 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Remmers GmbH Remmers (UK) Limited Bernhard-Remmers-Str. 13 Unit 4 Lloyds Court

D-49624 Löningen / Germany Manor Royal, Crawley - West Sussex RH10 9QU Tel.: +49(0)5432/83-0

fon +44 (0) 1293 594 010 fax +44 (0) 1293 594 037

Information department:

Fax: +49(0)5432/3985

Product Safety department: Phone: +44 (0) 1293 594 010

Email: sales@remmers.co.ukk

1.4 Emergency telephone number:

National Poisons Information Service (NPIS): In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

24h-Transport Emergency Contact Phone Number:

within USA and Canada: 1-800-424-9300 outside USA and Canada: 001-703-527-3887

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

## Classification according to Regulation (EC) No 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation.

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

Skin Sens. 1 H317 May cause an allergic skin reaction. Carc. 2 H351 Suspected of causing cancer. STOT SE 3 H335 May cause respiratory irritation.

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

#### 2.2 Label elements

## Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

## Hazard pictograms





## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.12.2022 Version number 7 (replaces version 6) Revision: 14.12.2022

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 1)

## Hazard-determining components of labelling:

diphenylmethanediisocyanate,isomeres and homologues

4,4'-methylenediphenyl diisocyanate

diphenylmethane-2,4'-diisocyanate

2,2'-methylenediphenyl diisocyanate

## **Hazard statements**

H332 Harmful 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**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

#### Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

As from 24 August 2023 adequate training is required before industrial or professional use.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

**Description:** Mixture of the substances listed below with harmless additions.

Dangerous components [% w/w]:		
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues  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, EUH204  Specific concentration limits:  Eye Irrit. 2; H319: C ≥ 5%  Skin Irrit. 2; H315: C ≥ 5 %  Resp. Sens. 1; H334: C ≥ 0.1 %  STOT SE 3; C ≥ 5 %	≥20-<30%
CAS: 101-68-8 EINECS: 202-966-0 Index number: 615-005-00-9 Reg.nr.: 01-2119457014-47- XXXX	4,4'-methylenediphenyl diisocyanate  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, EUH204  Specific concentration limits:  Eye Irrit. 2; H319: $C \ge 5\%$ Skin Irrit. 2; H315: $C \ge 5\%$ Resp. Sens. 1; H334: $C \ge 0.1\%$ STOT SE 3; $C \ge 5\%$	≥5-<10%

(Contd. on page 3)

according to 1907/2006/EC, Article 31

Version number 7 (replaces version 6) Printing date 14.12.2022 Revision: 14.12.2022

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 2) diphenylmethane-2,4'-diisocyanate CAS: 5873-54-1 ≥5-<10% EINECS: 227-534-9 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Index number: 615-005-00-9 Reg.nr.: 01-2119480143-45-Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, XXXX **EUH204** Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 % CAS: 2536-05-2 2,2'-methylenediphenyl diisocyanate ≥0.1-≤0.25% EINECS: 219-799-4 Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Index number: 615-005-00-9 Reg.nr.: 01-2119927323-43-Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, XXXX **EUH204** Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5% Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; C ≥ 5 %

Additional information 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**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

#### After inhalation

Supply fresh air and call for doctor for safety reasons.

In case of unconsciousness bring patient into stable side position for transport.

#### After skin contact

Treat affected areas of skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

Wash immediately with water and soap and rinse thoroughly.

### After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing Call a doctor immediately.

## 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: Firefighting measures**

#### 5.1 Extinguishing media

## Suitable extinguishing agents

Foam

Fire-extinguishing powder

Carbon dioxide

For larger fires also sprayed water.

Use fire fighting measures that suit the environment.

## 5.2 Special hazards arising from the substance or mixture

May be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Hydrogen cyanide (HCN)

(Traces)

Isocyanate fumes

Formation of poisonous gases during heating or in fires.

(Contd. on page 4)

according to 1907/2006/EC, Article 31

Version number 7 (replaces version 6) Printing date 14.12.2022 Revision: 14.12.2022

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 3)

## 5.3 Advice for firefighters

## Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Put on breathing apparatus.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Put on breathing apparatus.

**6.2 Environmental precautions:** Do not allow to enter the ground/soil.

## 6.3 Methods and material for containment and cleaning up:

Remove mechanically: Cover remains with damp, liquid-binding material (e.g. sawdust, chemical binders on a calcium silicate-hydrate base, sand). After approx. 1 hour, take up and place in refuse container. Do not close (CO2-development!) Keep damp and allow to stand in a safe place outdoors for several days.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

#### 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

Use only in well ventilated areas.

Ensure good ventilation/exhaust in workplaces.

Avoid the formation of aerosols.

#### Information about protection against explosions and fires:

No special requirements.

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 on storage in a common storage facility: none

Further information about storage conditions: Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Component	Components with limit values that require monitoring at the workplace:	
CAS: 9016-8	87-9 diphenylmethanediisocyanate,isomeres and homologues	
Long-t	term value: 0.07 mg/m³ term value: 0.02 mg/m³ as -NCO	
CAS: 101-68	8-8 4,4'-methylenediphenyl diisocyanate	
Long-t	term value: 0.07 mg/m³ term value: 0.02 mg/m³ as -NCO	
CAS: 5873-5	54-1 diphenylmethane-2,4'-diisocyanate	
Long-t	term value: 0.07 mg/m³ term value: 0.02 mg/m³ as -NCO	
CAS: 2536-0	05-2 2,2'-methylenediphenyl diisocyanate	
Long-t	term value: 0.07 mg/m³ term value: 0.02 mg/m³ as -NCO (Contd. on page 5)	

(Contd. on page 5)

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 7 (replaces version 6)

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 4)

Revision: 14.12.2022

Ingredients with biological limit values:		
CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate		
BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine		
CAS: 5873-54-1 diphenylmethane-2,4'-diisocyanate		
BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine		
CAS: 2536-05-2 2,2'-methylenediphenyl diisocyanate		
BMGV 1 µmol creatinine/mol Medium: urine Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine		

Additional information: The lists that were valid during compilation were used as a basis.

## 8.2 Exposure controls

#### Appropriate engineering controls

In workshops in which isocyanate aerosols and/or fumes can occur in higher concentrations, exceeding hygienic workplace limits must be prevented by deliberate air extraction. The air must be moved away from the persons.

## Individual protection measures, such as personal protective equipment

## General protective and hygienic measures

Do not eat, drink or smoke while working.

Use skin protection cream for preventive skin protection.

The handling of this product ist not recommended for persons with respiratory system and skin hypersensitivity (asthma, chronic bronchitis, chronic skin disease).

Keep away from food, beverages and animal feed.

Immediately remove soiled, saturated clothing.

Wash hands before pauses and after work.

Store protective clothing separately.

Avoid contact with eyes and skin.

The following indication regarding the personal protective equipment are to be considered as suggestions. The selection of the necessary personal protective equipment is to be evaluated by the employer depending on the types of operations and the local circumstances. If a risk assessment onsite shows that there is no risk for employees, the personal protective euiqment is not required or the amount of the PPE can be adpated accordingly.

## Respiratory equipment:

Not necessary if room is well-ventilated.

Short term filter device:

Filter A/P2

In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.

#### Hand protection

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

## Penetration time of glove material

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

(Contd. on page 6)

according to 1907/2006/EC, Article 31

Printing date 14.12.2022 Version number 7 (replaces version 6) Revision: 14.12.2022

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 5)

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Face protection

Tightly sealed safety glasses.

Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
---

**General Information** 

Physical state Fluid Colour: Brown

Odour:Weak, characteristicOdour threshold:Not determined.Melting point/freezing point:Not determined

Boiling point or initial boiling point and boiling

range > 300 °C
Flammability Not applicable.

Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable
Ignition temperature: not applicable
Decomposition temperature: ca. 260 °C
pH Not determined.

Viscosity:

**Kinematic viscosity dynamic at 20 °C:**Not determined.
200 mPas

Solubility

Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure at 20 °C: < 0.00001 mbar

Density and/or relative density

Density at 20 °C: 1.127 g/cm³
Relative density Not determined.
Vapour density Not determined.

9.2 Other information

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

**Explosive properties:** Product is not explosive.

Void

Void

Void

Solvent separation test < 3 %

Change in condition

**Evaporation rate** Not determined.

Information with regard to physical hazard

classes
Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure

Oxidising gases
Void
Gases under pressure
Void
Flammable liquids
Void
Self-reactive substances and mixtures
Void
Pyrophoric liquids
Void
Pyrophoric solids
Void

(Contd. on page 7)

according to 1907/2006/EC, Article 31

Version number 7 (replaces version 6) Printing date 14.12.2022 Revision: 14.12.2022

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 6)

Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

## **SECTION 10: Stability and reactivity**

10.1 Reactivity No further relevant information available.

## 10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

## 10.3 Possibility of hazardous reactions

Exothermic reaction with amines and alcohols.

With water carbon dioxide development, pressure build-up in closed containers.

Danger of bursting

10.4 Conditions to avoid No further relevant information available.

#### 10.5 Incompatible materials:

Alcohols

10.6 Hazardous decomposition products: No dangerous decomposition products known

## **SECTION 11: Toxicological information**

## 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Harmful 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	>9,400 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/l (rat)

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

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.

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

**STOT-single exposure:** May cause respiratory irritation.

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

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

## Additional toxicological information:

Special characteristics/effects of isocyanates:

In case of over-exposure - especially when spraying isocyanate based varnishes without protective measures - there is a danger of a concentration-dependent, irritating effect on eyes, nose, throat, and respiratory tract. The delayed appearance of symptoms and the development of hypersensitivity (trouble breathing, cough, asthma) are possible. For hypersensitive persons, reactions may be triggered by very low isocyanate concentrations, also below the TLV value. In case of prolonged contact with skin, tanning and irritating effects are possible.

#### 11.2 Information on other hazards

Endocrine disrupting properties	
None of the ingredients is listed.	

(Contd. on page 8)

## Safety data sheet according to 1907/2006/EC, Article 31

according to 1907/2000/EG, Artici

Printing date 14.12.2022 Version number 7 (replaces version 6) Revision: 14.12.2022

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 7)

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: No further relevant information available.

**12.2 Persistence and degradability** No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable. **vPvB:** Not applicable.

## 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Do not allow product to reach ground water, bodies of water or sewage system.

## SECTION 13: Disposal considerations

#### Recommendation

Not hardened material must be disposed of as hazardous waste according to official regulations. Hardened product remains may be disposed of as building rubble or put into household garbage. The given refuse codes are recommendations based upon the intended use of the product. Because of special use and disposal conditions at the user's, other codes may apply under other conditions.

## European waste catalogue

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

#### Uncleaned packaging:

### Recommendation:

Disposal must be made according to official regulations.

Packaging can be reused or recycled after cleaning.

## **SECTION 14: Transport information**

14.1 UN number or ID 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 Maritime transport in bulk accordin IMO instruments	g to Not applicable.
UN "Model Regulation":	Void

## **SECTION 15: Regulatory information**

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

### Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

(Contd. on page 9)

according to 1907/2006/EC, Article 31

Printing date 14.12.2022

Version number 7 (replaces version 6)

## Trade name VERGUSS PUR / AW 2K, KOMP. B

(Contd. of page 8)

Revision: 14.12.2022

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 56b, 56c, 74

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

## **REGULATION (EU) 2019/1148**

## Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

## Annex II - REPORTABLE EXPLOSIVES PRECURSORS

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 data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

### 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.

EUH204 Contains isocyanates. May produce an allergic reaction.

Classification according to Regulation (EC) No 1272/2008 Calculation method

Department issuing data specification sheet: Product Safety department / EHS

Date of previous version: 28.05.2019 Version number of previous version: 6

#### 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

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