

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

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

- **1.1 Product identifier**
- **Trade name:** *WAKOL D 3316 PVC Adhesive, fibre-containing*
- **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** *Adhesives*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
*WAKOL GmbH
Bottenbacher Str. 30
D-66954 Pirmasens
info@wakol.com
+49 6331 8001 0*
- **Informing department:**
*Product safety department.
msds@wakol.de*
- **1.4 Emergency telephone number:**
*Emergency CONTACT (24-Hour-Number):
GBK GmbH +49 (0)6132-84463*

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified, according to the GB CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **Additional information:**
*Contains a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1), 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.
Safety data sheet available on request.*
- **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:** *Adhesive*
 - **Dangerous components:**
- | | | |
|---------------------------|--|------------------|
| CAS: 2634-33-5 | <i>1,2-benzisothiazol-3(2H)-one</i> | <i><0.05%</i> |
| EINECS: 220-120-9 | <i>☠ Eye Dam. 1, H318; ☠ Aquatic Acute 1, H400;</i> | |
| Reg.nr.: 01-2120761540-60 | <i>☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317</i> | |
| | <i>Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05</i> | |
| | <i>%</i> | |

(Contd. on page 2)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 1)

CAS: 55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC ≥0.00025–<0.0015%
EC number: 611-341-5 No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No
220-239-6] (3:1)

☠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2,
H330; ☠ Skin Corr. 1C, H314; Eye Dam. 1, H318;

🐟 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1,
H410 (M=100); ⚠ Skin Sens. 1A, H317, EUH071

Specific concentration limits:

Skin Corr. 1C; H314: C ≥0.6 %

Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 %

Eye Dam. 1; H318: C ≥0.6 %

Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 %

Skin Sens. 1A; H317: C ≥0.0015 %

CAS: 2682-20-4 2-methyl-2H-isothiazol-3-one <0.0015%

EINECS: 220-239-6 ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2,
Reg.nr.: 01-2120764690-50 H330; ☠ Skin Corr. 1B, H314; Eye Dam. 1, H318;

🐟 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1,
H410 (M=1); ⚠ Skin Sens. 1A, H317, EUH071

Specific concentration limit: Skin Sens. 1A; H317: C ≥
0.0015 %

· **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**

· **After inhalation** Supply fresh air; consult doctor in case of complaints.

· **After skin contact** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact**

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

· **After swallowing** Do not induce vomiting; call for medical help 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**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Use fire extinguishing methods suitable to surrounding conditions.

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** Mount respiratory protective device.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation

(Contd. on page 3)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 2)

- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **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:**
Protect from frost.
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**
- **2634-33-5 1,2-benzisothiazol-3(2H)-one**
- **Dermal DNEL** 0.345 mg/kg/day (consumer (long-term))
0.966 mg/kg/day (workwr (long-term))
- **Inhalative DNEL** 1.2 mg/m³ (consumer (long-term))
6.81 mg/m³ (workwr (long-term))
- **PNECs**
- **2634-33-5 1,2-benzisothiazol-3(2H)-one**
- **PNEC** 4.03 µg/l (freshwater)
0.403 µg/l (sea water)
- **PNEC** 1.03 mg/l (purification plant)
- **PNEC** 3 mg/kg (soil)
0.00499 mg/kg (sediment (sea water))
0.0499 mg/kg (sediment (freshwater))
- **Additional information:** The lists valid during the making were used as basis.

(Contd. on page 4)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 3)

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures are to be adhered to when handling chemicals.
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Hand protection**



Protective gloves

Preventive skin protection by use of skin-protecting agents is recommended.

- **Material of gloves**
Nitrile rubber, NBR
Recommended thickness of the material: ≥ 0.35 mm
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 exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Tightly sealed goggles

- **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:** White
- **Smell:** Characteristic
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** 0 °C
- **Boiling point or initial boiling point and boiling range** 100 °C
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Decomposition temperature:** Not determined.
- **pH at 20 °C** 7.8 (ISO 976)
- **Viscosity:**
- **Kinematic viscosity** Not determined.

(Contd. on page 5)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 4)

- **kinematic (calculated) at 40°C:**
- **dynamic at 20 °C:** 61,000 mPas (ISO 2555)
- **Solubility**
- **Water:** Fully miscible.
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Steam pressure at 20 °C:** 23 hPa
- **Density and/or relative density**
- **Density at 20 °C** 1.4 g/cm³ (EN ISO 2811-1)
- **Relative density** Not determined.
- **Vapour density** Not determined.

- **9.2 Other information**
- **Appearance:**
- **Form:** Pasty
- **Important information on protection of health and environment, and on safety.**
- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **VOC** 0.00 %
- **Solids content:** 77.0 % (DIN EN 827.8.2)
- **Change in condition**
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.

(Contd. on page 6)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 5)

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

· **LD/LC50 values that are relevant for classification:**

2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral LD50 1,193 mg/kg (rat)

Dermal LD50 4,115 mg/kg (rat)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

Oral LD50 66 mg/kg (rat)

Dermal LD50 141 mg/kg (rat)

2682-20-4 2-methyl-2H-isothiazol-3-one

Oral LD50 285 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

· **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

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

· **Carcinogenicity** Based on available data, the classification criteria are not met.

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

· **STOT-single exposure** Based on available data, the classification criteria are not met.

· **STOT-repeated exposure** Based on available data, the classification criteria are not met.

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

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

2634-33-5 1,2-benzisothiazol-3(2H)-one

LC50/96h 2.18 mg/l (Oncorhynchus mykiss)

2.2 mg/l (Lepomis macrochirus)

EC50/18h 0.4 mg/l (Pseudomonas putida)

EC50/48h 2.94 mg/l (Daphnia magna)

EC50/72h 0.067 mg/l (Pseudokirchneriella subcapitata)

EC0 1 mg/l (Daphnia magna)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

NOEC/48h 0.00064 mg/l (Skeletonema costatum)

(Contd. on page 7)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 6)

NOEC/21d 0.004 mg/l (*Daphnia magna*)
 LC50/96h 0.188 mg/l (*Oncorhynchus mykiss*)
 EC20/3h 0.97 mg/l (sludge)
 EC50/48h 0.126 mg/l (*Daphnia magna*)
 EC50/3h 7.92 mg/l (sludge) (OECD 209)
 EC50/72h 0.048 mg/l (*Pseudokirchneriella subcapitata*)
 EC50/96h 0.22 mg/l (*Oncorhynchus mykiss*)
 NOEC/72h 0.0012 mg/l (*Pseudokirchneriella subcapitata*)

2682-20-4 2-methyl-2H-isothiazol-3-one

LC50/96h 0.6 mg/l (*Oncorhynchus mykiss*)
 12.4 mg/l (*Lepomis macrochirus*)
 EC50/18h 2.3 mg/l (*Pseudomonas putida*)
 EC50/48h 1.6 mg/l (*Daphnia magna*)
 EC50/72h 0.157 mg/l (*Pseudokirchneriella subcapitata*)

· **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:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

· **Uncleaned packagings:**

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

· **Recommended cleaning agent:** Water, if necessary together with cleansing agents.

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

(Contd. on page 8)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 7)

- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **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.
- **National regulations**
- **GEV-Guideline/EMICODE:** EC 1 plus, "very low emission"
- **VOC (EU)** 0.0 g/l
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH071 Corrosive to the respiratory tract.
- **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)
- VOC: Volatile Organic Compounds (USA, EU)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)

(Contd. on page 9)

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

Printing date 15.06.2023

Version number 1

Revision: 15.06.2023

Trade name: WAKOL D 3316 PVC Adhesive, fibre-containing

(Contd. of page 8)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

GB