

Safety data sheet
according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

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

- **Product identifier**
- **Trade name:** WAKOL R 4515 Tile cleaner
- **UFI:** 8FM6-C0G2-D00F-SPCJ
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Basic cleaner
- **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

Only Representative ("OR") according to Art. 8(1) of the UK REACH
HASKONINGDHV UK LIMITED
RIGHTWELL HOUSE
BRETTON CENTRE
PETERBOROUGH
PE3 8DW
UNITED KINGDOM

- **Emergency telephone number:**
Emergency CONTACT (24-Hour-Number)
GBK GmbH Global Regulatory Compliance +49 (0)6132-84463

SECTION 2: Hazards identification

- **Classification of the substance or mixture**



Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



- **Signal word** Warning
- **Hazard statements**
Causes skin irritation.

(Contd. on page 2)

Safety data sheet according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 1)

Causes serious eye irritation.

· **Precautionary statements**

Wear protective gloves / eye protection.

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

Immediately call a POISON CENTER/doctor.

If skin irritation occurs: Get medical advice/attention.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable

· **vPvB:** Not applicable

SECTION 3: Composition/information on ingredients

· **Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 111-76-2	2-butoxyethanol	>10–≤20%
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EINECS: 203-905-0	☠ Acute Tox. 3, H331; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315;	
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Reg.nr.: 01-2119475108-36	Eye Irrit. 2, H319	
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ATE: LD50 oral: 1,200 mg/kg

CAS: 69011-36-5	Isotridecanol, ethoxylated	>5–<10%
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EC number: 931-138-8	⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	
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Specific concentration limit: Eye Dam. 1; H318: C ≥ 10 %

CAS: 67-63-0	propan-2-ol	>2.5–≤5%
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EINECS: 200-661-7	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	
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Reg.nr.: 01-2119457558-25		
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CAS: 1336-21-6	ammonia, aqueous solution	>0.25–<1%
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EINECS: 215-647-6	⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1,	
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Reg.nr.: 01-2119488876-14	H400	
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Specific concentration limit: STOT SE 3; H335: C ≥ 5 %

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **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.

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

Safety data sheet **according to UK REACH**

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **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.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Dilute with plenty of water.
- **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.
Ensure adequate ventilation.
- **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

- **Precautions for safe handling** Use only in well ventilated areas.
- **Information about protection against explosions and fires:** No special measures required.
- **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.
Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

GB

(Contd. on page 4)

Safety data sheet
according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

· **Control parameters**

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

111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm

Long-term value: 123 mg/m³, 25 ppm

Sk, BMGV

67-63-0 propan-2-ol

WEL Short-term value: 1250 mg/m³, 500 ppm

Long-term value: 999 mg/m³, 400 ppm

· **DNELs**

67-63-0 propan-2-ol

Oral DNEL 26 mg/kg/day (consumers (Long-term))

Dermal DNEL 319 mg/kg/day (consumers (Long-term))

888 mg/kg/day (workers (Long-term))

Inhalative DNEL 89 mg/m³ (consumers (Long-term))

500 mg/m³ (workers (Long-term))

1336-21-6 ammonia, aqueous solution

Inhalative DNEL 28 mg/m³ (workers (Short-term))

14 mg/m³ (workers (Long-term))

· **PNECs**

67-63-0 propan-2-ol

PNEC 140.9 mg/l (Freshwater)

140.9 mg/l (Sea water)

140.9 mg/l (Water - partially release)

552 mg/l (Sediment (Sea water))

552 mg/l (Sediment (Freshwater))

2,251 mg/l (Purification plant)

PNEC 28 mg/kg (Soil)

1336-21-6 ammonia, aqueous solution

PNEC 0.165 mg/l (Freshwater)

0.0165 mg/l (Sea water)

0.28 mg/l (Water - partially release)

8.58 mg/l (Purification plant)

PNEC 32.3 mg/kg (Soil)

0.0165 mg/kg (Sediment (Freshwater))

(Contd. on page 5)

GB

Safety data sheet according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 4)

· **Ingredients with biological limit values:**

111-76-2 2-butoxyethanol

BMGV 240 mmol/mol creatinine

Medium: urine

Sampling time: post shift

Parameter: butoxyacetic acid

· **Additional information:** The lists valid during the making were used as basis.

· **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.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **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

· **Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Liquid

· **Colour:**

According to product specification

· **Smell:**

Recognisable

(Contd. on page 6)

Safety data sheet
according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 5)

· Odour threshold:	Not determined
· Melting point/freezing point:	Undetermined
· Boiling point or initial boiling point and boiling range	100 °C
· Flammability	Not applicable
· Lower and upper explosion limit	
· Lower:	1.1 Vol %
· Upper:	10.6 Vol %
· Flash point:	Not applicable
· Decomposition temperature:	Not determined
· pH at 20 °C	10.6 (ISO 976)
· Viscosity:	
· Kinematic viscosity	Not determined
· kinematic (calculated) at 40°C:	
· dynamic:	Not determined
· 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	0.997 g/cm ³ (EN ISO 2811-1)
· Relative density	Not determined
· Vapour density	Not determined
· Other information	
· Appearance:	
· Form:	Fluid
· 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.
· Organic solvents:	17.5 %
· VOC	17.5 %
· 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

(Contd. on page 7)

Safety data sheet according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 6)

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|----------------------------------|------|
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| · Desensitised explosives | Void |

SECTION 10: Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **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:**

111-76-2 2-butoxyethanol

Oral LD50 1,200 mg/kg (ATE)

Inhalative LC50/4h 3 mg/l (Rat)

69011-36-5 Isotridecanol, ethoxylated

Oral LD50 >300–2,000 mg/kg (Rat)

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

67-63-0 propan-2-ol

Oral LD50 5,840 mg/kg (Rat)

Dermal LD50 13,900 mg/kg (rabbit)

Inhalative LC50/4h 30 mg/l (Rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes skin irritation.
- **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.

(Contd. on page 8)

Safety data sheet according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 7)

- **Information on other hazards**
 - **Endocrine disrupting properties**
- None of the ingredients is listed.

SECTION 12: Ecological information

- **Toxicity**
- **Aquatic toxicity:**
 - 69011-36-5 Isotridecanol, ethoxylated**
 - LC50/96h >1–10 mg/l (*Leuciscus idus*)
 - EC50/48h >1–10 mg/l (*Daphnia magna*)
 - EC50/72h >1–10 mg/l (*Desmodesmus subspicatus*)
 - 67-63-0 propan-2-ol**
 - LC50/96h >9,600 mg/l (*Brachydanio rerio*)
 - LC50/72h >1,000 mg/l (algas)
 - EC50 >1,050 mg/l (bacteriums)
 - EC50/72h >1,000 mg/l (algas)
 - 1336-21-6 ammonia, aqueous solution**
 - LC50/96h 0.75–3.4 mg/l (*Pimephales promelas*)
 - 0.53 mg/l (*Oncorhynchus mykiss*)
 - 0.26–4.6 mg/l (*Lepomis macrochirus*)
 - EC50/48h 25.4 mg/l (*Daphnia pulex*)
- **Persistence and degradability** No further relevant information available.
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable
- **vPvB:** Not applicable
- **Endocrine disrupting properties**
- The product does not contain substances with endocrine disrupting properties.
- **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

- **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.

(Contd. on page 9)

Safety data sheet according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 8)

- **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

- | | |
|--|--|
| · UN number or ID number | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | Void |
| · ADR, ADN, IMDG, IATA | Void |
| · Class | Void |
| · Packing group | Void |
| · ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable |
| · 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

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
None of the ingredients is listed.
- **Regulated poisons**
None of the ingredients is listed.
- **Reportable explosives precursors**
None of the ingredients is listed.
- **Reportable poisons**
1336-21-6 ammonia, aqueous solution: 10%
- **PFAS** None of the ingredients is listed.
- **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS07

(Contd. on page 10)

GB

Safety data sheet
according to UK REACH

Printing date 28.07.2026

Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 9)

- **Signal word** *Warning*
- **Hazard statements**
Causes skin irritation.
Causes serious eye irritation.
- **Precautionary statements**
Wear protective gloves / eye protection.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER/doctor.
If skin irritation occurs: Get medical advice/attention.
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 is listed.*
- **REGULATION (EU) 2019/1021 on persistent organic pollutants (POP)** *None of the ingredients is listed.*
- **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**
None of the ingredients is listed.
- **National regulations**
- **Substances of very high concern (SVHC) according to UK REACH**
None of the ingredients is listed.
- **VOC (EU)** 720.1 g/l
- **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**
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
- **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)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent

(Contd. on page 11)

***Safety data sheet
according to UK REACH***

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Version number 12 (replaces version 11)

Revision: 28.07.2026

Trade name: WAKOL R 4515 Tile cleaner

(Contd. of page 10)

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

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

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

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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

GB