

Printing date 27.06.2022 Version number 10 (replaces version 7) Revision: 27.06.2022

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

- · 1.1 Product identifier
- · Trade name: WAKOL PU 4519 2K-PU Accelerator
- · 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 Catalyst
- · 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



Eye Dam. 1 H318 Causes serious eye damage.

- · 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



GHS05

- · Signal word Danger
- · Hazard-determining components of labelling:

triethylenediamine

· Hazard statements

H318 Causes serious eye damage.

· Precautionary statements

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.

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· vPvB: Not applicable.

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SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components:

CAS: 280-57-9 triethylenediamine

≥3-≤5%

Reg.nr.: 01-2119980944-22 Skin Irrit. 2, H315

· 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 Clean with water and soap. If possible, also wash with polyethylene glycol 400.
- · After eve 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

Formation of toxic gases is possible during heating or in case of fire.

- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.
- · 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 item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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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: Store only in the original receptacle.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: 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

25265-71-8 Dipropylene glycol (isomer unspecified)

Oral DNEL 24 mg/kg/day (conmsumer (long-term))

Dermal DNEL 51 mg/kg/day (conmsumer (long-term))

84 mg/kg/day (workwr (long-term))

Inhalative DNEL 70 mg/m³ (conmsumer (long-term))

238 mg/m³ (workwr (long-term))

280-57-9 triethylenediamine

Inhalative DNEL 3.6 mg/m³ (workers (short-term))

1.2 mg/m³ (workwr (long-term))

· PNECs

280-57-9 triethylenediamine

PNEC 0.1 mg/l (freshwater)

0.01 mg/l (sea water)

1 mg/l (water - partially release)

200 mg/l (purification plant)

PNEC 0.19 mg/kg (soil)

0.13 mg/kg (sediment (sea water))

1.3 mg/kg (sediment (freshwater))

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see item 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.

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- · 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 trough 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
Colour:
Colourless
Smell:
Odour threshold:
Melting point/freezing point:
Fluid
Colourless
Ammonia-like
Not determined.
Undetermined.

· Boiling point or initial boiling point and boiling

range 150 °C

· Flammability Not applicable.

· Lower and upper explosion limit

Lower and apper explosion limit

Lower:

Not determined.

Vipper:

Not determined.

Vipper:

Not determined.

Not determined.

Decomposition temperature: Not determined.pH Not determined.

· Viscosity:

· Kinematic viscosity Not determined.

· kinematic (calculated) at 40°C:

• dynamic at 20 °C: 850 mPas (ISO 2555)

·Solubility

• Water: Not miscible or difficult to mix.

• Partition coefficient n-octanol/water (log value) Not determined. • Steam pressure: Not determined.

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· Density and/or relative density

• **Density at 20 °C** 1 g/cm³ (EN ISO 2811-1)

Relative densityVapour densityNot determined.Not determined.

9.2 Other information

· Appearance:

· Form: Liquid

· 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 %

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Void · Explosives Void · Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure · Flammable liquids Void Void · Flammable solids · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable Void gases in contact with water · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability

· Corrosive to metals

· Desensitised explosives

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Void

Void

- 10.3 Possibility of hazardous reactions Reacts with strong acids and oxidising agents.
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 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.

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· LD/LC50 values that are relevant for classification:

25265-71-8 Dipropylene glycol (isomer unspecified)

Oral LD50 > 5,000 mg/kg (rat)
Dermal LD50 > 5,000 mg/kg (rabbit)

Inhalative LC50 > 6 mg/l (rat)

280-57-9 triethylenediamine

Oral LD50 700 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:

25265-71-8 Dipropylene glycol (isomer unspecified)

LC50/24h > 5,000 mg/l (piscarius)

EC50/48h > 100 mg/l (Daphnia magna)

EC50/72h >100 mg/l (Scenedesmus subspicatus)

EC10/16h >1,000 mg/l (Pseudomonas putida)

280-57-9 triethylenediamine

LC50/96h >100 mg/l (Cyprinus carpio)

EC50/48h >100 mg/l (Daphnia magna)

EC50/72h 180 mg/l (Selenastrum capricornutum)

- · 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

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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.

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: 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
- · 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

H228 Flammable solid.

H302 Harmful if swallowed.

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H315 Causes skin irritation.

H318 Causes serious eye damage.

· 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Sol. 1: Flammable solids - Category 1 Acute Tox. 4: Acute toxicity - Category 4

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

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