

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

Printing date 08.11.2022

Version number 11 (replaces version 10)

Revision: 08.11.2022

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

· **1.1 Product identifier**

· **Trade name:** WAKOL K 450 Solid Parquet Adhesive

· **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**



flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



health hazard

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs. Route of exposure: Oral and Inhalation.



Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **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**



GHS02



GHS07



GHS08

· **Signal word** Danger

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· **Hazard-determining components of labelling:**

gum rosin
methyl acetate
methanol
acetone

· **Hazard statements**

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H371 May cause damage to the central nervous system and the visual organs. Route of exposure: Oral and Inhalation.

· **Precautionary statements**

P210 Keep away from flames and hot surfaces. No smoking.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves / eye protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

· **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: 8050-09-7	gum rosin	>10–≤20%
EINECS: 232-475-7	⚠ Skin Sens. 1, H317	
Reg.nr.: 01-2119480418-32		
CAS: 67-56-1	methanol	>5–<10%
EINECS: 200-659-6	⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311;	
Reg.nr.: 01-2119433307-44	Acute Tox. 3, H331; ⚠ STOT SE 1, H370	
	Specific concentration limits: STOT SE 1; H370: C ≥ 10 %	
	STOT SE 2; H371: 3 % ≤ C < 10 %	
CAS: 79-20-9	methyl acetate	>5–<10%
EINECS: 201-185-2	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336,	
Reg.nr.: 01-2119459211-47	EUH066	
CAS: 67-64-1	acetone	>2.5–≤5%
EINECS: 200-662-2	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336,	
Reg.nr.: 01-2119471330-49	EUH066	

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

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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; consult doctor in case of complaints.

· **After skin contact** Clean with water and soap. If possible, also wash with polyethylene glycol 400.

· **After eye contact** Rinse opened eye for several minutes under running water. Then 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.

· **For safety reasons unsuitable extinguishing agents** Water with full jet

· 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.

· **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

· 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.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· 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.

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SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

· **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:** Store in a cool location.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep receptacle tightly sealed.

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:**

67-56-1 methanol

WEL Short-term value: 333 mg/m³, 250 ppm

Long-term value: 266 mg/m³, 200 ppm

Sk

79-20-9 methyl acetate

WEL Short-term value: 770 mg/m³, 250 ppm

Long-term value: 616 mg/m³, 200 ppm

67-64-1 acetone

WEL Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

· **DNELs**

8050-09-7 gum rosin

Oral DNEL 15 mg/kg/day (general population (short-term))

Dermal DNEL 15 mg/kg/day (general population (short-term))

25 mg/kg/day (workers (short-term))

Inhalative DNEL 52.174 mg/m³ (general population (short-term))

176.32 mg/m³ (workers (short-term))

67-56-1 methanol

Dermal DNEL 8 mg/kg/day (general population (short-term))

8 mg/kg/day (general population (long-term))

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40 mg/kg/day (workers (short-term))

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

Inhalative DNEL 50 mg/m³ (general population (short-term))

50 mg/m³ (general population (long-term))

260 mg/m³ (workers (short-term))

79-20-9 methyl acetate

Dermal DNEL 44 mg/kg/day (consumer (short-term))

88 mg/kg/day (workers (short-term))

Inhalative DNEL 131 mg/m³/day (consumer (short-term))

305 mg/m³/day (workers (short-term))

67-64-1 acetone

Oral DNEL 62 mg/kg/day (general population (long-term))

Dermal DNEL 62 mg/kg/day (general population (long-term))

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

Inhalative DNEL 200 mg/m³ (general population (long-term))

2,420 mg/m³ (workers (short-term))

1,210 mg/m³ (workwr (long-term))

PNECs

8050-09-7 gum rosin

PNEC 0.0005 mg/l (sea water)

1,000 mg/l (STP)

PNEC 21.4 mg/kg (soil)

10.8 mg/kg (sediment (sea water))

108 mg/kg (sediment (freshwater))

67-56-1 methanol

PNEC 154 mg/l (freshwater)

15.4 mg/l (sea water)

23.5 mg/l (soil)

100 mg/l (purification plant)

79-20-9 methyl acetate

PNEC 0.12 mg/l (freshwater)

0.012 mg/l (sea water)

1.2 mg/l (water - partially release)

600 mg/l (purification plant)

PNEC 0.0416 mg/kg (soil)

0.0128 mg/kg (sediment (sea water))

0.128 mg/kg (sediment (freshwater))

67-64-1 acetone

PNEC 10.6 mg/l (freshwater)

1.06 mg/l (sea water)

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21 mg/l (water - partially release)

100 mg/l (STP)

PNEC 29.5 mg/kg (soil)

3.04 mg/kg (sediment (sea water))

30.4 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.

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:**

Use suitable respiratory protective device in case of insufficient ventilation.

If the occupational exposure limit is exceeded.

· **Recommended filter device for short term use:** Combination filter A-P2

· **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: ≥ 0.4 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:**

Beige

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· Smell:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	57 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	-10 °C
· Ignition temperature:	235 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· kinematic (calculated) at 40°C:	
· dynamic at 20 °C:	33,000 mPas (ISO 2555)
· Solubility	
· Water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.48 g/cm ³ (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 is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Organic solvents:	21.6 %
· VOC	21.6 %
· Solids content:	78.4 % (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	Highly flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void

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- **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.
- **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:**

8050-09-7 gum rosin

Oral LD50 2,800 mg/kg (rat)
Dermal LD50 >2,000 mg/kg (rat)

67-56-1 methanol

Oral LD50 2,769 mg/kg (rat)
Dermal LD50 17,100 mg/kg (rabbit)
Inhalative LC50/4h 128.2 mg/l (rat)

79-20-9 methyl acetate

Oral LD50 6,482 mg/kg (rat)
Dermal LD50 3,705 mg/kg (rabbit)
>2,000 mg/kg (rat)
Inhalative LC50/4h >49.2 mg/l (rat)
NOAEC 1.057 mg/l/6h/d (rat) (14-day or 28-day study)

67-64-1 acetone

Oral LD50 5,800 mg/kg (rat) (OECD RL 401)
Dermal LD50 >15,800 mg/kg (rat)
Inhalative LC50/4h 76 mg/l (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**
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- **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**
May cause damage to the central nervous system and the visual organs. Route of exposure: Oral and Inhalation.
- **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:**
- 67-56-1 methanol**
LC50/96h 15,400 mg/l (*Lepomis macrochirus*)
EC5/16h 6,600 mg/l (*Pseudomonas putida*)
EC5/72h >10,000 mg/l (*Entosiphon sulcatum*)
IC5/8d 8,000 mg/l (*Scenedesmus quadricauda*)
- 79-20-9 methyl acetate**
LC50/96h 250–350 mg/l (*Brachydanio rerio*)
EC50/24h 1,027 mg/l (*Daphnia magna*) (OECD RL 202)
EC50/72h >120 mg/l (*Pseudokirchneriella subcapitata*) (OECD RL 201)
EC10/0,5h 1,730 mg/l (*Photobacterium phosphoreum*)
EC10/24h 1,500 mg/l (sludge)
EC10/16h 1,830 mg/l (*Pseudomonas putida*)
1,730 mg/l (*Photobacterium phosphoreum*)
- 67-64-1 acetone**
NOEC/16h 1,700 mg/l (*Pseudomonas putida*)
NOEC/48h 4,740 mg/l (*Selenastrum capricornutum*)
LC50/96h 11,300 mg/l (*Leuciscus idus*) (DIN 38412 T.15)
5,540 mg/l (*Oncorhynchus mykiss*)
8,300 mg/l (*Lepomis macrochirus*)
LC50/48h 12,600 mg/l (*Daphnia magna*)
11,300 mg/l (*Leuciscus idus*)
EC5/16h 1,700 mg/l (*Pseudomonas putida*)
EC5/72h 28 mg/l (*Entosiphon sulcatum*)
EC5/8d 530 mg/l (*Microcystis aerruginosa*)
EC50/18h 12,600–12,700 mg/l (*Daphnia magna*)
EC50/48h 6,100 mg/l (*Daphnia magna*)
EC50/96h 8,300 mg/l (*Lepomis macrochirus*)
- **12.2 Persistence and degradability** No further relevant information available.

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- **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.

SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR, IMDG, IATA** UN1133
- **14.2 UN proper shipping name**
- **ADR** 1133 ADHESIVES
- **IMDG, IATA** ADHESIVES
- **14.3 Transport hazard class(es)**
- **ADR, IMDG, IATA**
- 
- **Class** 3 Flammable liquids.
- **Label** 3
- **14.4 Packing group**
- **ADR, IMDG, IATA** III
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Warning: Flammable liquids.
- **Kemler Number:** -
- **EMS Number:** F-E,S-D
- **Stowage Category** A
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

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· **Transport/Additional information:**

· **ADR**

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **Transport category**
- **Tunnel restriction code**

3
E

· **IMDG**

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

5L
Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

- **UN "Model Regulation":**

UN 1133 ADHESIVES, 3, III

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.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t

- **National regulations**

· **VOC (EU)** 319.7 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**

- H225 Highly flammable liquid and vapour.
- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H336 May cause drowsiness or dizziness.
- H370 Causes damage to organs.
- EUH066 Repeated exposure may cause skin dryness or cracking.

· **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

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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. Liq. 2: Flammable liquids – Category 2

Acute Tox. 3: Acute toxicity – Category 3

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

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

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

GB