

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.05.2023

Version number 11 (replaces version 10)

Revision: 10.05.2023

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

- **1.1 Product identifier**
- **Trade name:** POLYFIN Kontaktkleber W
- **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:**
POLYFIN AG
Polyfinstraße 1
74909 Meckesheim
Tel.: +49 6226 99394 0
Email: info@polyfin.de
- **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

Repr. 2 H361d Suspected of damaging the unborn child.

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



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the GB CLP regulation.

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· **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

· **Signal word** *Danger*· **Hazard-determining components of labelling:***toluene**Hydrocarbons, C6, isoalkanes, <5% n-hexane**Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics**Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane*· **Hazard statements***H225 Highly flammable liquid and vapour.**H315 Causes skin irritation.**H361d Suspected of damaging the unborn child.**H336 May cause drowsiness or dizziness.**H373 May cause damage to organs through prolonged or repeated exposure.**H411 Toxic to aquatic life with long lasting effects.*· **Precautionary statements***P210 Keep away from flames and hot surfaces. No smoking.**P240 Ground and bond container and receiving equipment.**P241 Use explosion-proof [electrical/ventilating/lighting] equipment.**P261 Avoid breathing vapours.**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].*· **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: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51	<i>toluene</i> <i>Flam. Liq. 2, H225; Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; Skin Irrit. 2, H315; STOT SE 3, H336</i>	>20–≤25%
EC number: 931-254-9 Reg.nr.: 01-2119484651-34	<i>Hydrocarbons, C6, isoalkanes, <5% n-hexane</i> <i>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336</i>	>10–≤20%
EC number: 927-510-4 Reg.nr.: 01-2119475515-33	<i>Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</i> <i>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; STOT SE 3, H336</i>	>10–≤20%
EC number: 926-605-8 Reg.nr.: 01-2119486291-36	<i>Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane</i> <i>Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336, EUH066</i>	>2.5–≤5%

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· Additional information

"Naphtha" classified and marked in accordance with EU Directives RL 67/548/EWG, VO(EG) 1272/2008;
Note P. [contents benzene (CAS: 71-43-2) <0,1% by weight]
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.**· 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. 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.

· 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.

Inform respective authorities in case of seepage into water course or sewage system.

· 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.

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** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

Protect from heat.

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.
Protect from heat and direct sunlight.
- **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:**

108-88-3 toluene

WEL Short-term value: 384 mg/m³, 100 ppm

Long-term value: 191 mg/m³, 50 ppm

Sk

- **DNELs**

108-88-3 toluene

Oral DNEL 8.13 mg/kg/day (consumer (long-term))

Dermal DNEL 226 mg/kg/day (consumer (long-term))

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

Inhalative DNEL 226 mg/m³ (consumer (short-term))

56.5 mg/m³ (consumer (long-term))

343 mg/m³ (workers (short-term))

192 mg/m³ (workwr (long-term))

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Oral DNEL 1,301 mg/kg/day (consumer (long-term))

Dermal DNEL 1,377 mg/kg/day (consumer (long-term))

13,964 mg/kg/day (workwr (long-term))

Inhalative DNEL 1,137 mg/m³ (consumer (long-term))

5,306 mg/m³ (workwr (long-term))

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Oral DNEL 149 mg/kg/day (consumer (long-term))

Dermal DNEL 149 mg/kg/day (consumer (long-term))

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

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Inhalative DNEL 477 mg/m³ (consumer (long-term))
2,085 mg/m³ (worker (long-term))

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane

Oral DNEL 1,301 mg/kg/day (consumer (long-term))

Dermal DNEL 1,377 mg/kg/day (consumer (long-term))

13,964 mg/kg/day (worker (long-term))

Inhalative DNEL 1,131 mg/m³ (consumer (long-term))5,306 mg/m³ (worker (long-term))**· PNECs****108-88-3 toluene**

PNEC 0.68 mg/l (freshwater)

13.61 mg/l (STP)

PNEC 2.89 mg/kg (soil)

16.39 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 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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

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

Fluorocarbon rubber (Viton)

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.

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· **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
· Smell:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	60 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1 Vol %
· Upper:	7 Vol %
· Flash point:	-25 °C
· Auto-ignition temperature:	246 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· kinematic (calculated) at 40°C:	
· dynamic at 20 °C:	3,000 mPas (ISO 2555)
· Solubility	
· Water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Steam pressure at 20 °C:	29 hPa
· Density and/or relative density	
· Density at 20 °C	0.85 g/cm ³ (EN ISO 2811-1)
· 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.**· **Self-inflammability:**

Product is not selfigniting.

· **Explosive properties:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Organic solvents:**

56.0 %

· **VOC**

56.0 %

· **Solids content:**

44.0 % (DIN EN 827.8.2)

· **Change in condition**· **Evaporation rate**

Not determined.

· **Information with regard to physical hazard classes**· **Explosives**

Void

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· 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
· 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:**

108-88-3 toluene

Oral LD50 5,580 mg/kg (rat)
 Dermal LD50 >5,000 mg/kg (rabbit)
 Inhalative LC50/4h 31 mg/l (rat)

Hydrocarbons, C6, isoalkanes, <5% n-hexane

Oral LD50 >5,000 mg/kg (rat) (OECD 401)
 Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402)
 Inhalative LC50/4h >20 mg/l (rat) (OECD 403)

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Oral LD50 >2,920 mg/kg (rabbit) (OECD 402)
 Dermal LD50 >5,840 mg/kg (rat) (OECD 401)
 Inhalative LC50/4h >23.3 mg/l (rat) (OECD 403)

Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane

Oral LD50 >3,350 mg/kg (rat) (OECD 401)
 Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402)

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Inhalative LC50/4h >20 mg/l (rat) (OECD 403)· **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***Suspected of damaging the unborn child.*· **STOT-single exposure***May cause drowsiness or dizziness.*· **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.*· **11.2 Information on other hazards**· **Endocrine disrupting properties***None of the ingredients is listed.***SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****108-88-3 toluene***NOEC/16h 29 mg/l (Pseudomonas putida)**LC50/96h 24 mg/l (Oncorhynchus mykiss)**EC50/48h 11.5 mg/l (Daphnia magna)**IC50/72h 12 mg/l (Pseudokirchneriella subcapitata)***Hydrocarbons, C6, isoalkanes, <5% n-hexane***LC50/48h 3.87 mg/l (Daphnia magna)**>1 mg/l (Oryzias latipes)**ErL50(72h) 55 mg/l (Pseudokirchneriella subcapitata)***Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics***EL50/48 h 3 mg/l (Daphnia magna)**EL50/72 h 10–30 mg/l (Pseudokirchneriella subcapitata)**LL50/96 h 13.4 mg/l (Oncorhynchus mykiss)***Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5% n-hexane***ErL50(72h) 55 mg/l (Pseudokirchneriella subcapitata)**EL50/48 h 3 mg/l (Daphnia magna)**LL50/96 h 12 mg/l (Oncorhynchus mykiss)*· **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.*

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· 12.7 Other adverse effects

· Remark: Toxic for fish

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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

UN1133

· ADR, IMDG, IATA

· 14.2 UN proper shipping name

· ADR

· IMDG

1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS
ADHESIVES (Hydrocarbons, C6, isoalkanes,
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics),
MARINE POLLUTANT
ADHESIVES

· IATA

· 14.3 Transport hazard class(es)

· ADR, IMDG



· Class

3 Flammable liquids.

· Label

3

· IATA



· Class

3 Flammable liquids.

· Label

3

· 14.4 Packing group

· ADR, IMDG, IATA

III

· 14.5 Environmental hazards:

Product contains environmentally hazardous substances:
Hydrocarbons, C6, isoalkanes

· Marine pollutant:

nein

Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

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- **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.

· **Transport/Additional information:**

-
- **ADR**
 - **Limited quantities (LQ)** 5L
 - **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml
 - **Transport category** 3
 - **Tunnel restriction code** E
-
- **IMDG**
 - **Limited quantities (LQ)** 5L
 - **Excepted quantities (EQ)** 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, ENVIRONMENTALLY HAZARDOUS

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**
E2 Hazardous to the Aquatic Environment
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations**
- **VOC (EU)** 476.0 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**
- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

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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. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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