

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.02.2022

Version number 2 (replaces version 1)

Revision: 11.02.2022

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

1.1 Product identifier

Trade name **weber.tec 977 Komp.B**

Safety data sheet no.: 49PX20321-b

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

Spacings sealent

Hardening agent/ Curing agent

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Saint Gobain Weber GmbH

Schanzenstr. 84

D-40549 Düsseldorf

+49(0)211/91369-0

email: Produktsicherheit@sg-weber.de

1.4 Emergency telephone number: Telefon: +49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

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



GHS07

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335 May cause respiratory irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07 GHS08

Signal word Danger

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Hazard-determining components of labelling:

4,4'-methylenediphenyl diisocyanate
o-(p-isocyanatobenzyl)phenyl isocyanate
diphenylmethanediisocyanate, isomeres and homologues
2,2'-methylenediphenyl diisocyanate

Hazard statements

H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.
As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards**Results of PBT and vPvB assessment**

PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Description: Modified polyisocyanates

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After skin contact

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse liquid should be tempered (20-30°C).

After swallowing Do not induce vomiting; call for medical help immediately.

Information for doctor None

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.

For safety reasons unsuitable extinguishing agents Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen cyanide (HCN)

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

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

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).

6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection: No special measures required.

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7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Store in a cool location.

Contact with copper and copper alloys and galvanized surfaces must be avoided.

Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

Further information about storage conditions:

Protect from humidity and water.

Protect from freezing.

Protect from heat and direct sunlight.

Store in dry conditions.

Recommended storage temperature: 5-30°C.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

DNELs

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

| | | |
|------------|-------------------------|--|
| Inhalative | Derived No Effect Level | 0.1 mg/m ³ (worker local short term value) 0.05 mg/m ³ (worker local long term value) 0.025 mg/m ³ (consumer local long term value) 0.05 mg/m ³ (consumer local short term value) |
|------------|-------------------------|--|

CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate

| | | |
|------------|-------------------------|---|
| Inhalative | Derived No Effect Level | 0.05 mg/m ³ (worker local long term value) 0.025 mg/m ³ (consumer local long term value) |
|------------|-------------------------|---|

Ingredients with biological limit values:

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

| | |
|---------------|---|
| BGW (Germany) | 10 µg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 4,4'-Diaminodiphenylmethan |
|---------------|---|

| CAS No. | Designation of material | % | Type | Value | Unit |
|---------|-------------------------|---|------|-------|------|
|---------|-------------------------|---|------|-------|------|

CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate

| | | | | | |
|---------------|--|--|--|--|--|
| AGW (Germany) | Long-term value: 0.05 E mg/m ³ 1;=2=(I);DFG, 11, 12, H, Sah, Y | | | | |
| GV (Denmark) | Long-term value: 0.05 mg/m ³ , 0.005 ppm K | | | | |
| LEP (Spain) | Long-term value: 0.052 mg/m ³ , 0.005 ppm Sen, r | | | | |
| TWA (Italy) | Long-term value: 0.051 mg/m ³ , 0.005 ppm | | | | |

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| | |
|--|---|
| VLE (Portugal) | Long-term value: 0.005 ppm sensibilização respiratória |
| OEL (Sweden) | Short-term value: 0.05 mg/m ³ , 0.005 ppm Long-term value: 0.03 mg/m ³ , 0.002 ppm M, S |
| HTP (Finland) | Short-term value: 0.035 mg/m ³ NCO |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | |
| AGW (Germany) | Long-term value: 0.05 mg/m ³ 1;=2=(I);AGS, 11, 12 |
| HTP (Finland) | Short-term value: 0.035 mg/m ³ NCO |
| CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues | |
| AGW (Germany) | Long-term value: 0.05 E mg/m ³ 1;=2=(I);DFG, H, Sah, Y, 12 |
| LEP (Spain) | Long-term value: 0.05* mg/m ³ *vía dérmica, Sen,*Propuesta de modificación |
| HTP (Finland) | Short-term value: 0.035 mg/m ³ NCO |
| CAS: 2536-05-2 2,2'-methylenediphenyl diisocyanate | |
| AGW (Germany) | Long-term value: 0.05 mg/m ³ 1;=2=(I);AGS, 11, 12 |
| HTP (Finland) | Short-term value: 0.035 mg/m ³ NCO |

Additional information:

The applicable TRGS 900 (MAK list) was used as the basis for the preparation and/or revision of this safety data sheet.

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.

Use a moisturising skin cream after processing the product.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

Short term filter device:

Filter A2/P2.

Hand protection

Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

Recommended thickness of the material: \geq (Butyl) 1.5mm; (Nitril) 0.55 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 mixture 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

Breakthrough time: > 480 min

Value for the permeation: Level \leq 6

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Protective eyewear (standard EN 166)

Tightly sealed goggles

Body protection: Chemically resistant protective work clothing (EN 14605)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

| | |
|---|------------------------------------|
| Colour: | Brown |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |
| Melting point/freezing point: | Undetermined. |
| Boiling point or initial boiling point and boiling range | > 350 °C |
| Lower and upper explosion limit | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| Flash point: | 180 °C |
| Auto-ignition temperature: | Product is not selfigniting. |
| Decomposition temperature: | Not determined. |
| pH | Not applicable. |
| Viscosity: | |
| Kinematic viscosity | Not determined. |
| | Not determined. |
| dynamic at 20 °C: | 30 mPas |
| Solubility | |
| Water: | Insoluble, reacts (see Section 10) |
| Partition coefficient n-octanol/water (log value) | Not determined. |
| Vapour pressure: | Not determined. |
| Density and/or relative density | |
| Density at 20 °C: | 1.2 g/cm ³ |
| Bulk density: | Not applicable. |
| Vapour density | Not determined. |

9.2 Other information None.

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Appearance:

Form: Fluid

Important information on protection of health and environment, and on safety.

Ignition temperature: Not determined.

Explosive properties: Product does not present an explosion hazard.

Minimum ignition energy

Solvent separation test: Not determined

Change in condition

Softening point/range

Oxidising properties Not determined.

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.

To avoid thermal decomposition do not overheat.

Decomposition starts at: > 260 ° C

10.3 Possibility of hazardous reactions

Exothermic reaction with amines and alcohols. CO₂ generation with water; pressure build-up (danger of bursting) in closed containers.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

Carbon dioxide

Carbon monoxide

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Nitrogen oxides (NOx)
Hydrogen cyanide (prussic acid)

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if inhaled.

LD/LC50 values relevant for classification:

| Components | Type | Value | Species |
|--|----------|---------------|----------|
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate | | | |
| Oral | LD50 | >2,000 mg/kg | (Rat) |
| Dermal | LD50 | 9,400 mg/kg | (Rabbit) |
| Inhalative | LC50/4 h | >0.431 mg/l | (Rat) |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | | | |
| Oral | LD50 | >2,000 mg/kg | (Rat) |
| Dermal | LD50 | >9,400 mg/kg | (Rabbit) |
| Inhalative | LC50/4 h | 0.431 mg/l | |
| CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues | | | |
| Oral | LD50 | >2,000 mg/kg | (Rat) |
| Dermal | LD50 | >10,000 mg/kg | (Rabbit) |
| Inhalative | LC50/4 h | 0.49 mg/l | (Rat) |

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation Causes serious eye irritation.

Respiratory or skin sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

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

Carcinogenicity Suspected of causing cancer.

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

STOT-single exposure May cause respiratory irritation.

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: No further relevant information available.

| Type of test | Effective concentration | Method | Assessment |
|--|-------------------------|-----------------|------------|
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate | | | |
| LC50/96h | 1,000 mg/l | (Fish) | |
| EC50/24h | 1,000 mg/l | (Daphnia magna) | |

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| | |
|--|---|
| EC50/72h | 1,640 mg/l (Algae) |
| NOEC (21d) | 10 mg/l (Daphnia magna) |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | |
| IC50/72h | >1,640 mg/l (Scenedesmus subspicatus (Algae)) |
| LC50/96h | >1,000 mg/l (Brachydanio rerio (zebra danio)) |
| EC50/24h | 1,000 mg/l (Daphnia magna) |
| EC50/72h | >1,640 mg/l (Scenedesmus subspicatus (Algae)) |
| NOEC (21d) | 10 mg/l (Daphnia magna) |
| CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues | |
| LC0/96h | >1,000 mg/l (Fish) |
| EC50/24h | >1,000 mg/l (Daphnia magna) |

12.2 Persistence and degradability No further relevant information available.

| | |
|---|----------------------|
| Method | |
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate | |
| Biod. (28d) | 0 % (Biodegradation) |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | |
| Biod. (28d) | 0 % (Biodegradation) |

Other information: The product is not easily biodegradable.

Behaviour in environmental systems:

| | |
|---|------------------------|
| Components: | |
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate | |
| DT50-value (Degradation Half Time) | 1 day |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | |
| DT50-value (Degradation Half Time) | 1 day (Biodegradation) |

12.3 Bioaccumulative potential

| | |
|---|--------------------------------|
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate | |
| EBAB | 4.51 log Pow |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | |
| EBAB | 4.51 log Pow (Bioaccumulation) |
| Bioaccumulation Factor (BCF) | 200 (Bioaccumulation) |

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: Does not contain PBT substances.

vPvB: Does not contain vPvB substances.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects
Behaviour in sewage processing plants:

| | |
|---|------------------------------|
| Type of test Effective concentration Method Assessment | |
| CAS: 101-68-8 4,4'-methylenediphenyl diisocyanate | |
| EC 50 (3h) | 100 mg/l (Activated sludge) |
| CAS: 5873-54-1 o-(p-isocyanatobenzyl)phenyl isocyanate | |
| EC 50 (3h) | >100 mg/l (Activated sludge) |

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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.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 56a, 56b, 56c, 74

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations

Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

Other regulations, limitations and prohibitive regulations

BG-Merkblätter: M 044 "Polyurethane production/Isocyanates"

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

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

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

EUH204 Contains isocyanates. May produce an allergic reaction.

Department issuing SDS: Product safety department.

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Contact: Produktsicherheit@sg-weber.de; tel. +49(0)2363/399-210**Version number of previous version: 1****Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern (REACH regulation)

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

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

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

Resp. Sens. 1: Respiratory sensitisation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

*** Data compared to the previous version altered.**

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.