

Material Safety Data Sheet

According to 91/155 EEC

Printing date 04.04.2007

Reviewed on 21.03.2007

1 Identification of the substance/preparation and of the company/undertaking**Product details**Trade name Plastikol TK Komp. A

Safety data sheet no.: 49PD10455-a/5

Application of the substance / the preparation Spacings sealent

Manufacturer/Supplier:

maxit France s.a.s

4 rue de Mulhouse

Boîte Postale 27

F-68180 Horbourg-Wihr

Tel.: ++33(0)3 89 20 10 80

FAX: ++33(0)3 89 20 10 92

Information in case of emergency:

maxit France s.a.s

Tel.: ++33(0)3 89 20 10 80

2 Composition/information on ingredients**Chemical characterization****Description:**

Polysulfid-sealant based on liquid polysulfidpolymers, mineral filling material and additives.

Dangerous components:

68611-50-7	Polysulfidpolymer mit Thiolendgruppen (MG > 1800)	R 52/53	25 - 50%
71302-91-5	Kohlenwasserstoffe, C9, ungesättigt, Polymere mit Phenol	 Xn; R 22	2 - 5%

Additional information For the wording of the listed risk phrases refer to section 16.**3 Hazards identification****Hazard description:** Not applicable.**Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures**General information** Immediately remove any clothing soiled by the product.**After inhalation** Supply fresh air; consult doctor in case of complaints.**After skin contact**

Immediately wash with water and soap and rinse thoroughly.

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor. Rinse liquid should be tempered (20-30°C).

After swallowing Drink plenty of water and provide fresh air. Call for a doctor immediately.

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Information for doctor None

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5 Fire fighting measures**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

Special hazards caused by the substance, its products of combustion or resulting gases:

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

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.

Measures for environmental protection:

The product must not get into watercourses or into the soil.

Suppress gases/fumes/haze with water spray.

Measures for cleaning/collecting: Pick up mechanically.

Additional information: See Section 13 for disposal information.

7 Handling and storage**Handling**

Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

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

Storage

Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

Information about storage in one common storage facility:

Do not store together with oxidizing and acidic materials.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

Recommended storage temperature: 5-30°C.

8 Exposure controls and personal protection**Ingredients with limit 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.

Additional information:

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

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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.

Avoid contact with the eyes and skin.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Protection of hands:

Protective gloves.

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

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

Material of gloves

Butyl rubber, BR

Nitrile rubber, NBR

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 protection: Safety glasses.

Body protection: Protective work clothing.

9 Physical and chemical properties:

General Information

Form: Pasty
Colour: Various colours
Odour: Characteristic

Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: >150 Zersetzung°C (>302 Zersetzung°F) (DIN)

Flash point: > 200°C (> 392°F) (DIN ISO 2592)

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Vapour pressure: Not determined.

Density at 20°C (68°F): 1,55 g/cm³ (DIN 51757)

Bulk density: Not applicable.

Solubility in / Miscibility with

Water: Insoluble

pH-value: Not applicable.

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Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Solvent content:	
Organic solvents:	0,0 %
Additional information:	
None.	

10 Stability and reactivity**Thermal decomposition / Conditions to be avoided:**

Can decompose slowly with localised heating above 150°C

Dangerous reactions: Reacts with acids, alkalis and oxidizing agents**Dangerous decomposition products:**

Sulphur dioxide

Carbon monoxide and carbon dioxide

Formaldehyde

Aldehyde

Hydrogen sulphide

11 Toxicological information**Acute toxicity:****LD/LC50 values relevant for classification:**

Components	Type	Value	Species
68611-50-7 Polysulfidpolymer mit Thiolendgruppen (MG > 1800)			
Oral	LD50	>5000 mg/kg	(rat)
Dermal	LD50	>7800 mg/kg	(rat)
13463-67-7 titanium dioxide			
Oral	LD50	>10000 mg/kg	(rat)
Benzyl,C7-C9 lineare und verzweigte Alkylester,1,2 Benzoldicarbonsäure			
Oral	LD50	>15800 mg/kg	(rat)
Dermal	LD50	>7940 mg/kg	(rabbit)
71302-91-5 Kohlenwasserstoffe, C9, ungesättigt, Polymere mit Phenol			
Oral	LD50	1200 - 2000 mg/kg	(rat)

Primary irritant effect:**on the skin:** No irritant effect.**on the eye:** No irritating effect.**Sensitization:** No sensitizing effects known.**12 Ecological information:****Information about elimination (persistence and degradability):****Other information:** The product is difficultly biodegradable.**Ecotoxicological effects:****Acquatic toxicity:**

Type of test	Effective concentration	Method	Assessment
68611-50-7 Polysulfidpolymer mit Thiolendgruppen (MG > 1800)			
EC 10	1870 mg/l	(Belebtschlamm)	

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Benzyl,C7-C9 lineare und verzweigte Alkylester,1,2 Benzoldicarbonsäure

EC50/48h	4,5 mg/l (Daphnia magna (großer Wasserfloh))
IC50/72h	421 mg/l (Alge)
LC50/96h	>1000 mg/l (Oncorhynchus mykiss (rainbow trout))
	>1000 mg/l (Pimephales promelas (Elritze))

Remark: Harmful to fish

Behaviour in sewage processing plants:

Type of test Effective concentration Method Assessment

68611-50-7 Polysulfidpolymer mit Thiolendgruppen (MG > 1800)

EC 50 (3h)	1160 mg/l (Daphnia magna (großer Wasserfloh))
	>10 mg/l (Alge)

General notes:

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

Harmful to aquatic organisms

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

13 Disposal considerations

Product:

Recommendation

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

European waste catalogue

07 02 08	other still bottoms and reaction residues
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Uncleaned packaging:

Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)

ADR/RID-GGVS/E Class: -

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

Transport/Additional information: Not dangerous according to the above specifications.

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15 Regulatory information**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU

Directives / Ordinance on Hazardous Materials.

Observe the general safety regulations when handling chemicals.

Risk phrases:

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

24/25 Avoid contact with skin and eyes.

36/37 Wear suitable protective clothing and gloves.

60 This material and its container must be disposed of as hazardous waste.

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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 R-phrases

22 Harmful if swallowed.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS: Product safety department**Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93*** Data compared to the previous version altered.**

EU

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1 Identification of the substance/preparation and of the company/undertaking**Product details**Trade name Plastikol TK Komp. B

Safety data sheet no.: 49PD10455-b/4

Application of the substance / the preparation

Polysulfide-Sealent

Hardening agent/ Curing agent

Manufacturer/Supplier:

maxit France s.a.s

4 rue de Mulhouse

Boîte Postale 27

F-68180 Horbourg-Wihr

Tel.: ++33(0)3 89 20 10 80

FAX: ++33(0)3 89 20 10 92

Information in case of emergency:

maxit France s.a.s

Tel.: ++33(0)3 89 20 10 80

2 Composition/information on ingredients**Chemical characterization****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

1313-13-9	manganese dioxide, ore of Chapter 26  Xn; R 20/22	25 - 50%
137-26-8	thiram  Xn,  Xi,  N; R 20/22-36/38-43-48/22-50/53	2 - 5%
1310-73-2	sodium hydroxide  C; R 35	0,1 - 1%

Additional information For the wording of the listed risk phrases refer to section 16.**3 Hazards identification****Hazard description:**

Xn Harmful

N Dangerous for the environment

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 20/22 Harmful by inhalation and if swallowed.

R 36/38 Irritating to eyes and skin.

R 43 May cause sensitisation by skin contact.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Trade name Plastikol TK Komp. B

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Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

4 First aid measures**General information**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

After inhalation Supply fresh air and to be sure call for a doctor.

After skin contact

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

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

Rinse out mouth and then drink plenty of water.

Call for a doctor immediately.

Information for doctor None

5 Fire fighting measures**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

Special hazards caused by the substance, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures**Person-related safety precautions:**

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Measures for environmental protection:

The product must not get into watercourses or into the soil.

Suppress gases/fumes/haze with water spray.

Measures for cleaning/collecting:

Pick up mechanically.

Dispose of the material collected according to regulations.

Additional information: See Section 13 for disposal information.

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Trade name Plastikol TK Komp. B

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7 Handling and storage**Handling****Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.**Information about fire - and explosion protection:** No special measures required.**Storage****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from flammable substances.

Further information about storage conditions: Protect from heat and direct sunlight.**Recommended storage temperature:** 5-30°C.**8 Exposure controls and personal protection****Additional information about design of technical facilities:** No further data; see item 7.**Ingredients with limit values that require monitoring at the workplace:****Additional information:**

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

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.

Do not eat, drink, smoke or sniff while working.

Respiratory protection: Not necessary if room is well-ventilated.**Protection of hands:**

Protective gloves.

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

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

Material of gloves

Nitrile rubber, NBR

Butyl rubber, BR

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 protection: Tightly sealed goggles**Body protection:** Protective work clothing.

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9 Physical and chemical properties:**General Information**

Form: Viscous
Colour: Various colours
Odour: Characteristic

Change in condition**Melting point/Melting range:** Undetermined.**Boiling point/Boiling range:** Undetermined.**Flash point:** > 100°C (> 212°F) (DIN ISO 2592)**Self-igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Vapour pressure:** Not determined.**Density at 20°C (68°F):** 1,62 g/cm³ (DIN 51757)**Bulk density:** Not applicable.**Solubility in / Miscibility with****Water:** Insoluble**pH-value:** Not applicable.**Viscosity:****dynamic:** Not determined.**kinematic:** Not determined.**Solvent separation test:** Not applicable.**Solvent content:****Organic solvents:** 0,0 %**Additional information:** None.**10 Stability and reactivity****Thermal decomposition / Conditions to be avoided:**

Can decompose slowly with localised heating above 150°C

Dangerous reactions: No dangerous reactions known**Dangerous decomposition products:** No dangerous decomposition products known.**11 Toxicological information****Acute toxicity:**

LD/LC50 values relevant for classification:

Components	Type	Value	Species
Benzyl,C7-C9 lineare und verzweigte Alkylester,1,2 Benzoldicarbonsäure			
Oral	LD50	>15800 mg/kg (rat)	
Dermal	LD50	>7940 mg/kg (rabbit)	
16883-83-3 benzyl 3-isobutyryloxy-1-isopropyl-2,2-dimethylpropyl phthalate			
Oral	LD50	>15800 mg/kg (rat)	
Dermal	LD50	>10000 mg/kg (rabbit)	
137-26-8 thiram			
Oral	LD50	780-1300 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rat)	

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Primary irritant effect:

on the skin: Irritant to skin and mucous membranes.

on the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

Harmful

Bis-(dimethyl-thiocarbamoyl)-disulfid: Mutagener Stoff der Kategorie 3

12 Ecological information:

Information about elimination (persistence and degradability):

Other information: The product is difficultly biodegradable.

Ecotoxicological effects:

Acquatic toxicity:

Type of test Effective concentration Method Assessment

Benzyl,C7-C9 lineare und verzweigte Alkylester,1,2 Benzoldicarbonsäure

EC50/48h	4,5 mg/l (Daphnia magna (großer Wasserfloh))
IC50/72h	421 mg/l (Alge)
LC50/96h	>1000 mg/l (Oncorhynchus mykiss (rainbow trout))
	>1000 mg/l (Pimephales promelas (Elritze))

16883-83-3 benzyl 3-isobutyryloxy-1-isopropyl-2,2-dimethylpropyl phthalate

EC50/48h	7,5 mg/l (Daphnia magna (großer Wasserfloh))
EC50/96h	>1000 mg/l (Alge)
LC50/96h	>1000 mg/l (Oncorhynchus mykiss (rainbow trout))
	>1000 mg/l (Pimephales promelas (Elritze))

137-26-8 thiram

EC50/96h	1,0 mg/l (Alge)
LC50/48h	0,21 mg/l (Daphnia magna (großer Wasserfloh))
LC50/96h	1,2 mg/l (Leuciscus idus (Goldorfe))
	0,16 mg/l (fish)

Behaviour in sewage processing plants:

Type of test Effective concentration Method Assessment

137-26-8 thiram

EC 50 (3h)	116 mg/l (Belebtschlamm)
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General notes:

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.

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Trade name Plastikol TK Komp. B

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13 Disposal considerations**Product:****Recommendation**

After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

European waste catalogue

07 02 08	other still bottoms and reaction residues
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Uncleaned packaging:**Recommendation:**

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**

ADR/RID-GGVS/E Class: -

Maritime transport IMDG/GGVSea:

IMDG/GGVSea Class: -

Marine pollutant: No

Air transport ICAO-TI and IATA-DGR:

ICAO/IATA Class: -

Transport/Additional information: Not dangerous according to the above specifications.

15 Regulatory information**Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:

Xn Harmful

N Dangerous for the environment

Hazard-determining components of labelling:

thiram

manganese dioxide, ore of Chapter 26

Risk phrases:

20/22 Harmful by inhalation and if swallowed.

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

9 Keep container in a well-ventilated place.

23 Do not breathe fumes/aerosol.

24/25 Avoid contact with skin and eyes.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

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Use appropriate container to avoid environmental contamination.

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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 R-phrases

20/22 Harmful by inhalation and if swallowed.

35 Causes severe burns.

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Department issuing MSDS: Product safety department**Contact:** Mr Gilles Weber, Tel.: ++33(0)3 89 20 10 93*** Data compared to the previous version altered.**

EU