Safety Data Sheet according to (EC) No 1907/2006

sds no. : 75952
V006.0

TEROLAN SCHWARZ DK 310ML

Revision: 08.08.2012
printing date: 25.04.2013

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

1.1. Product identifier
TEROLAN SCHWARZ DK 310ML

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use:
1-Component sealant

1.3. Details of the supplier of the safety data sheet
Henkel AG & Co. KGaA
Henkelstr. 67
40589 Düsseldorf

Germany

Phone: +49 (211) 797 0
Fax-no.: +49 (211) 798 4008

ua-productsafety.de@henkel.com

1.4. Emergency telephone number
The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (CLP):
No data available.

Classification (DPD):
F - Highly flammable
R11 Highly flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements (CLP):
No data available.

Label elements (DPD):

F - Highly flammable

Risk phrases:
R11 Highly flammable.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:
S16 Keep away from sources of ignition - No smoking.
S51 Use only in well-ventilated areas.
S61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

2.3. Other hazards

Solvents contained in the product evaporate during processing and their vapors can form explosive/highly inflammable air/vapor mixtures.
The solvent vapors are heavier than air and may collect in high concentrations at floor level.

SECTION 3: Composition/information on ingredients

General chemical description:
Sealant
Base substances of preparation:
Bitumen
Synthetic resin
Solvent mixture

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119486136-34 01-2119488216-32	< 10 %	Aspiration hazard 1 H304 Acute toxicity 4; Inhalation H332 Acute toxicity 4; Dermal H312 Skin irritation 2 H315 Flammable liquids 3 H226
Naphtha, hydrotreated light, <0,1% benzene 64742-49-0	265-151-9	< 10 %	Dermal Flammable liquids 2 H225 Aspiration hazard 1; Oral H304 Specific target organ toxicity - single exposure 3 H336 Chronic hazards to the aquatic environment 2 H411
Ethylbenzene 100-41-4	202-849-4 01-2119489370-35	< 5 %	Flammable liquids 2 H225 Acute toxicity 4; Inhalation H332
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	265-185-4 01-2119484809-19	< 2,5 %	Chronic hazards to the aquatic environment 2 H411 Aspiration hazard 1 H304 Specific target organ toxicity - single exposure 3 H336 Flammable liquids 3 H226

For full text of the H - statements and other abbreviations see section 16 "Other information".
Substances without classification may have community workplace exposure limits available.

Declaration of ingredients according to DPD (EC) No 1999/45:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
Xylene - mixture of isomeres 1330-20-7	215-535-7 01-2119486136-34 01-2119488216-32	< 10 %	Xn - Harmful; R65 R10 Xi - Irritant; R38 Xn - Harmful; R20/21
Naphtha, hydrotreated light, <0,1% benzene 64742-49-0	265-151-9	< 10 %	R10 Xn - Harmful; R65 R66, R67 N - Dangerous for the environment; R51/53
Ethylbenzene 100-41-4	202-849-4 01-2119489370-35	< 5 %	F - Highly flammable; R11 Xn - Harmful; R20
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	265-185-4 01-2119484809-19	< 2,5 %	R10 N - Dangerous for the environment; R51/53 Xn - Harmful; R65 R66, R67

For full text of the R-Phrases indicated by codes see section 16 'Other Information'.
Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:
Move to fresh air, consult doctor if complaint persists.

Skin contact:
Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed
No data available.

4.3. Indication of any immediate medical attention and special treatment needed
See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media:
All common extinguishing agents are suitable.

Extinguishing media which must not be used for safety reasons:
Water jet (solvent-containing product).

5.2. Special hazards arising from the substance or mixture
In case of fire toxic gases can be released.

5.3. Advice for firefighters
Wear self-contained breathing apparatus.
Wear protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear protective equipment.

6.2. Environmental precautions
Do not empty into drains / surface water / ground water.
Inform authorities in the event of product spillage to water courses or sewage systems.

6.3. Methods and material for containment and cleaning up
Remove mechanically.
Dispose of contaminated material as waste according to Chapter 13.

6.4. Reference to other sections
See advice in chapter 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid open flames and sources of ignition.
Take measures to prevent the build-up of electrostatic charges.

Hygiene measures:
Do not eat, drink or smoke while working.
Wash hands before work breaks and after finishing work.

7.2. Conditions for safe storage, including any incompatibilities
Ensure good ventilation/extraction.
Store in a cool, dry place.
Temperatures between + 10 °C and + 25 °C

7.3. Specific end use(s)
1-Component sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Valid for
Germany

Ingredient	ppm	mg/m³	Type	Category	Remarks
XYLENE, MIXED ISOMERS, PURE 1330-20-7	50	221	Time Weighted Average (TWA):	Indicative	ECTLV
XYLENE, MIXED ISOMERS, PURE 1330-20-7	100	442	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Xylene 1330-20-7			Skin designation:	Can be absorbed through the skin.	TRGS 900
Xylene 1330-20-7	100	440	AGW:	2	TRGS 900
Xylene 1330-20-7			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Ethylbenzene 100-41-4			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Ethylbenzene 100-41-4			Skin designation:	Can be absorbed through the skin.	TRGS 900
ETHYLBENZENE 100-41-4			Skin designation:	Can be absorbed through the skin.	ECTLV
ETHYLBENZENE 100-41-4	100	442	Time Weighted Average (TWA):	Indicative	ECTLV
ETHYLBENZENE 100-41-4	200	884	Short Term Exposure Limit (STEL):	Indicative	ECTLV
Ethylbenzene 100-41-4	100	440	AGW:	2	TRGS 900

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Acute/short term exposure - systemic effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Acute/short term exposure - local effects		289 mg/m3	
Xylene - mixture of isomeres 1330-20-7	worker	dermal	Long term exposure - systemic effects		180 mg/kg	
Xylene - mixture of isomeres 1330-20-7	worker	inhalation	Long term exposure - systemic effects		77 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Acute/short term exposure - systemic effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Acute/short term exposure - local effects		174 mg/m3	
Xylene - mixture of isomeres 1330-20-7	general population	dermal	Long term exposure - systemic effects		108 mg/kg	
Xylene - mixture of isomeres 1330-20-7	general population	inhalation	Long term exposure - systemic effects		14,8 mg/m3	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	worker	inhalation	Long term exposure - systemic effects		330 mg/m3	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	worker	dermal	Long term exposure - systemic effects		44 mg/kg	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	general population	inhalation	Long term exposure - systemic effects		71 mg/m3	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	general population	dermal	Long term exposure - systemic effects		26 mg/kg	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	general population	oral	Long term exposure - systemic effects		26 mg/kg	

8.2. Exposure controls:

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
Suitable breathing mask when there is inadequate ventilation.

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Protective goggles

Skin protection:
Wear protective equipment.

Advices to personal protection equipment:
Use only personal protection that's CE-labelled according to the regulation no. 819 of 19 August 1994.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	paste pasty black
Odor	aromatic
pH	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	13,5 °C (56.3 °F); DIN 51755 Closed cup flash point
Decomposition temperature	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Density (20 °C (68 °F))	1,6 g/cm3
Bulk density	No data available / Not applicable
Viscosity (Unknown; 20 °C (68 °F))	200 - 300 pa.s
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Solidification temperature	No data available / Not applicable
Melting point	No data available / Not applicable
Flammability	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Explosive limits	No data available / Not applicable
Partition coefficient: n-octanol/water	No data available / Not applicable
Evaporation rate	No data available / Not applicable
Vapor density	No data available / Not applicable
Solid content	83 %
Oxidising properties	No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
None if used for intended purpose.

10.2. Chemical stability
Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions
See section reactivity

10.4. Conditions to avoid
None if used for intended purpose.

10.5. Incompatible materials
None if used properly.

10.6. Hazardous decomposition products
No decomposition if used according to specifications.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General toxicological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	LD50 LC50 LD50	3.523 - 8.700 mg/kg 6350 ppm > 4.350 mg/kg	oral inhalation dermal	4 h	rat rabbit	

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	moderately irritating		rabbit	

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	slightly irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		
Ethylbenzene 100-41-4	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test sister chromatid exchange assay in mammalian cells	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Ethylbenzene 100-41-4	negative	intraperitoneal		mouse	

SECTION 12: Ecological information

General ecological information:

The preparation is classified based on the conventional method outlined in Article 6(1)(a) of Directive 1999/45/EC. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.
Harmful to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.
Do not empty into drains / surface water / ground water.

12.1. Toxicity

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
Xylene - mixture of isomeres 1330-20-7	LC50	86 mg/l	Fish		Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
Xylene - mixture of isomeres 1330-20-7	EC50	3,1 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Xylene - mixture of isomeres 1330-20-7	EC50	1 - 10 mg/l	Algae		Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Naphtha, hydrotreated light, <0,1% benzene 64742-49-0	LC50	1 - 10 mg/l	Fish			OECD Guideline 203 (Fish, Acute Toxicity Test)
Naphtha, hydrotreated light, <0,1% benzene 64742-49-0	EC50	3 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Naphtha, hydrotreated light, <0,1% benzene 64742-49-0	EC50	1 - 10 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)
Ethylbenzene 100-41-4	LC50	44 mg/l	Fish	48 h	Leuciscus idus melanotus	
Ethylbenzene 100-41-4	EC50	75 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Ethylbenzene 100-41-4	EC50	> 160 mg/l	Algae	8 d	Scenedesmus quadricauda	OECD Guideline 201 (Alga, Growth Inhibition Test)
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	LC50	68,2 mg/l	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	EC50	100 - 220 mg/l	Daphnia		Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	EC50	10 - 100 mg/l	Algae			OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
Xylene - mixture of isomeres 1330-20-7	readily biodegradable	aerobic	> 60 %	
Ethylbenzene 100-41-4		aerobic	69 %	EU Method C.4-F (Determination of the "Ready" BiodegradabilityMITI Test)
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	readily biodegradable	aerobic	63 %	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)

12.3. Bioaccumulative potential / 12.4. Mobility in soil

Hazardous components CAS-No.	LogKow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

Xylene - mixture of isomeres 1330-20-7 Xylene - mixture of isomeres 1330-20-7	3,12	8,5	7 d	Oncorhynchus mykiss		
Ethylbenzene 100-41-4	3,15				25 °C	
Naphtha (petroleum), hydrodesulfurized heavy 64742-82-1	3,5 - 6,4				20 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

The valid EEC waste code numbers are not product-related but are largely source-related. These can be requested from the manufacturer.

In consultation with the responsible local authority, must be subjected to special treatment.

SECTION 14: Transport information

Road transport ADR:
Not dangerous goods

Railroad transport RID:
Not dangerous goods

Inland water transport ADN:
Not dangerous goods

Marine transport IMDG:
Not dangerous goods

Air transport IATA:
Not dangerous goods

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC content (VOCV 814.018 VOC regulation CH) 37 %

National regulations/information (Germany):

WGK: 2, water-endangering product. (German VwVwS of July 27, 2005)
Classification in conformity with the calculation method

Storage class VCI: 11

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text
of all abbreviations indicated by codes in this safety data sheet are as follows:

R10 Flammable.
R11 Highly flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Further information:

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.