

Printing date 18.08.2015 Version number 1 Revision: 18.08.2015

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

- · 1.1 Product identifier
- · Trade name BETALINK™ K1
- 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 Sealant
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Supplier:

R-LOGISTICS GmbH

Daimlerstr. 21

74252 Massenbachhausen

Manufacturer:

DOW Deutschland Anlagengesellschaft mbH Am Kronberger Hang 4 65824 Schwalbach

· Informing department:

(31) 115 67 2626

SDSQuestion@dow.com

• 1.4 Emergency telephone number: 0049 4146 91 2333

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.

- · 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 GHS08
- · Signal word Danger
- · Hazard-determining components of labelling:

diphenylmethane-4,4'-di-isocyanante

· Hazard statements

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

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· Precautionary statements

P285 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
- · **Description:** Mixture of the substances listed below with harmless additions.

Dangerous components:		
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119486136-32	xylene, mixed isomers, pure Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%
CAS: 90622-57-4 EINECS: 292-459-0 Reg.nr.: 01-2119471991-29	Isoparafinischer Kohlenwasserstoff Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 4, H413	2.5-10%
CAS: 101-68-8 EINECS: 202-966-0 Reg.nr.: 01-2119457014-47	diphenylmethane-4,4'-di-isocyanante Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 85099-51-0 ELINCS: 400-580-9	Dodecyl-3-(2,2,4,4-tetramethyl-21-oxo-7-oxa-3.20-diazadispiro(5,1,11,2)henicosan-20-yl)propionat Aquatic Chronic 2, H411; Skin Irrit. 2, H315	< 0.5%

- · SVHC The product contains no substances named in the SVHC candidate list.
- · Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
- · General information

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

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· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

- 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 doctor.

· After swallowing

Do not induce vomiting; instantly call for medical help.

Seek medical treatment.

· 4.2 Most important symptoms and effects, both acute and delayed

Asthma attacks

Allergic reactions

· 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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- · For safety reasons unsuitable extinguishing agents Water with a full water jet.
- · 5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

- · 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

· Additional information

Cool endangered containers with water spray jet.

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

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Use breathing protection against the effects of fumes/dust/aerosol.

· 6.2 Environmental precautions:

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

· 6.3 Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

· 6.4 Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

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: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and containers: Store in cool location.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- · Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

- · Storage class 11
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · 8.1 Control parameters

1330-20-7	' xylene	, mixed isomers, pure
WEL (Gre	at Britai	n) Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (El	IJ)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
101-68-8	dipheny	Imethane-4,4'-di-isocyanante
WEL (Great Britain)		n) Short-term value: 0.07 mg/m³ Long-term value: 0.02 mg/m³ Sen; as -NCO
DNELs		
1330-20-7	xylene	, mixed isomers, pure
Oral	DNEL	1.6 mg/kg bw/day (consumer, systemic, long term)
Dermal	DNEL	180 mg/kg bw/day (worker, systemic, long term)
		108 mg/kg bw/day (consumer, systemic, long term)
Inhalative	DNEL	289 mg/m³ (worker, systemic, short term)
		77 mg/m³ (worker, systemic, long term)
		174 mg/m³ (consumer, local, short term)

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	•		(Contd. of p
		174 mg/m³ (consumer, systemic, short term)	
		14.8 mg/m³ (consumer, systemic, long term)	
100-41-4	ethylbe	enzene	
Oral	DNEL	1.6 mg/kg bw/day (consumer, systemic, long term)	
Dermal	DNEL	180 mg/kg bw/day (worker, systemic, long term)	
Inhalative	DNEL	293 mg/m³ (worker, local, short term)	
		77 mg/m³ (worker, systemic, long term)	
		15 mg/m³ (consumer, systemic, long term)	
101-68-8	diphen	ylmethane-4,4'-di-isocyanante	
Dermal	DNEL	28.7 mg/kg bw/day (worker, local, short term)	
		50 mg/kg bw/day (worker, systemic, short term)	
Inhalative	DNEL	0.1 mg/m³ (worker, local, short term)	
		0.05 mg/m³ (worker, local, long term)	
		0.1 mg/m³ (worker, systemic, short term)	
		0.05 mg/m³ (worker, systemic, long term)	
PNECs			
1330-20-2	7 xylene	e, mixed isomers, pure	
PNEC 0.	327 mg/	(I (fresh water)	
0.	327 mg/	(I (salt water)	
0.	327 mg/	(I (sporadic release)	
6.	58 mg/l	(sewage plant (STP))	
12	2.46 mg/	kg dwt (fresh water sediment)	
12	2.46 mg/	kg dwt (salt water sediment)	
2.	31 mg/k	g dwt (soil)	
100-41-4			
		fresh water)	
	• •	(salt water)	
	Ū	sporadic release)	
	• .	sewage plant (STP))	
	• .	g dwt (fresh water sediment)	
	•	g dwt (salt water sediment)	
	_	g dwt (soil)	
		ylmethane-4,4'-di-isocyanante	
	- '	fresh water)	
	• .	(salt water)	
	_	sewage plant (STP))	
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· Ingredients with biological limit values:

1330-20-7 xylene, mixed isomers, pure

BMGV (Great Britain) 650 mmol/mol creatinine

Medium: urine

Sampling time: post shift Parameter: methyl hippuric acid

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Do not eat, drink or smoke while working.

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

· Breathing equipment:



Use breathing protection in case of insufficient ventilation.

· Protection of hands:



Protective gloves.

· Material of gloves

We recommend:

Nitril / Neopren ; strength > 0,55 mm naturelatex; strength > 1,0 mm e.g. Sol-Vex 37-185; Emperor ME 104 (breakdown time > 180 min)

· 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 safety glasses.

· Body protection:



Protective work clothing.

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· 9.2 Other information

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9.1 Information on basic physical and ch	emical properties	
General Information		
Appearance: Form:	Pasty	
Colour:	rasıy Black	
Smell:	Solvent-like	
Odour threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition		
Melting point/Melting range:	Not determined	
Boiling point/Boiling range:	Not determined	
Flash point		
(ISO 3679 / ISO 3680; SETA CLOSED CUI	P): Not applicable	
Inflammability (solid, gaseous)	Not determined.	
Ignition temperature:	> 200 °C	
Decomposition temperature:	Not determined.	
Self-inflammability:	Product is not selfigniting.	
Danger of explosion:	Product is not explosive.	
Critical values for explosion:		
Lower:	0.4 Vol %	
Upper:	7.6 Vol %	
Steam pressure at 20 °C:	29 hPa	
Density (DIN 51757) at 20 °C:	1.17 g/cm³	
Relative density	Not determined.	
Vapour density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix	
Partition coefficient (n-octanol/water):	Not determined.	

No further relevant information available.

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 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: Oxidizers, Acids
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity

		nt are relevant for classification: nixed isomers, pure
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	15354 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)
90622-57-	4 Isopara	finischer Kohlenwasserstoff
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)
100-41-4	ethylbenz	ene
Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	5000 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/l (ATE)
101-68-8	diphenylm	nethane-4,4'-di-isocyanante
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 9400 mg/kg (rabbit)
Inhalative	LC50/4 h	1.5 mg/l (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritant effect.
- · Respiratory or skin sensitisation Sensitization possible by inhalation.
- · Additional toxicological information: Harmful

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SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

1330-20-7 xylene, mixed isomers, pure

EC50 3.82 mg/l (daphniae)

4.7 mg/l (algae)

> 175 mg/l (bacteriae)

LC50 7.6 mg/l (fish)

< 100 mg/l (algae)

< 10 mg/l (bacteriae)

100-41-4 ethylbenzene

EC50 1.8-2.9 mg/l (daphniae) (48 h; Daphnaia magna)

IC50 4.6 mg/l (algae) (72 h, Selenastrum capricornutum)

LC50 94.44 mg/l (fish) (96 h; Carassius auratus)

- · 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.
- · Additional ecological information:
- · AOX-indication: not relevant
- According to recipe contains the following heavy metals and compounds according to EC guideline NO. 76/464 EC:

none

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

No complications regarding the degrading activities of the activated sludge are to be expected as long as low concentrations are discharged correctly into adapted biological treatment plants.

- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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· European waste catalogue

The waste key numbers from EWC, is sector and process-specific implement .

- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport inform	ation
14.1 UN-Number	
ADR, ADN, IMDG, IATA	No dangerous good
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	No dangerous good
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	No dangerous good
14.4 Packing group	
ADR, IMDG, IATA	No dangerous good
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Ann	ex II
of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	_

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2004/42/EC of the European Parliament and of the Council of 21 April 2004 / Part II 2010

The 2004/42/EG does not apply for this product.

· Labelling according to Regulation (EC) No 1272/2008

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

- · Hazard pictograms GHS08
- · Signal word Danger
- · Hazard-determining components of labelling:

diphenylmethane-4,4'-di-isocyanante

Hazard statements

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

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· Precautionary statements

P285 In case of inadequate ventilation wear respiratory protection.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a

position comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 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 Control of Substances Hazardous to Health (COSHH)
- · Information about limitation of use: none
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The REACh registration numbers given in chapter 1 (for substances) or chapter 3 (for formulations)

are given to our present knowledge resulting from the information provided by our suppliers.

· Relevant phrases

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

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.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

DNEL: Derived No-Effect Level (REACH)

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PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Carc. 2: Carcinogenicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

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