

Date of last issue: 26.07.2022	Version 3.2	Print Date 18.10.2022
Revision Date: 18.10.2022		

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

1.1 Product identifier

I rade name	:	SikaBiresin [®] KL100 (B)
UK REACH Registration Number	:	01-2119485796-17-XXXX
Substance name	:	HDI oligomers, isocyanurate
CAS-No.	:	28182-81-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use	:	Technical casting compounds
	•	i composition of composition

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ
Telephone	:	+44 (0)1707 394444
Telefax	:	+44 (0)1707 329129
E-mail address of person responsible for the SDS	:	EHS@uk.sika.com

1.4 Emergency telephone number

National Chemical Emergency Centre (NCEC) 24 Hour Emergency Telephone Number +44 870 190 6777

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 Skin sensitisation, Category 1 Specific target organ toxicity - single exposure, Category 3, Respiratory system

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

H332: Harmful if inhaled.

H317: May cause an allergic skin reaction.

H335: May cause respiratory irritation.



Date of last issue: 26.07.2022 Revision Date: 18.10.2022		V	Version 3.2	
Signal word	:	Warning		
Hazard statements	:	H317 H332 H335	May cause an allergic skin reac Harmful if inhaled. May cause respiratory irritation.	
Precautionary statements	:	Prevention: P261 P280	Avoid breathing mist or vapours Wear protective gloves.	.
		Response: P304 + P340 + P P333 + P313 P362 + P364	P312 IF INHALED: Remove pe air and keep comfortable for bre POISON CENTER/ doctor if you If skin irritation or rash occurs: (advice/ attention. Take off contaminated clothing before reuse.	eathing. Call a u feel unwell. Get medical
		Storage: P403 + P233	Store in a well-ventilated place. tainer tightly closed.	Keep con-

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

CAS-No.

28182-81-2

Components

Chemical name	CAS-No.	Concentration (%	M-Factor, SCL, ATE
	EC-No.	w/w)	
HDI oligomers, isocyanu-	28182-81-2	100	Acute toxicity estimate
rate	Not Assigned		_
Contains:	-		Acute inhalation toxici-

Country GB 10000015532



Date of last issue: 26.07.2022 Revision Date: 18.10.2022	Version 3.2	Print Date 18.10.2022
hexamethylene-di- isocyanate <= 0,09 %		ty (dust/mist): 1,5 mg/l

SECTION 4: First aid measures

4.1 Description of first aid measu	S	
General advice	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendanc	ce.
If inhaled	Move to fresh air. Consult a physician after significant exposure.	
In case of skin contact	Take off contaminated clothing and shoes immediate Wash off with soap and plenty of water. If symptoms persist, call a physician.	ly.
In case of eye contact	Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.	
If swallowed	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious pers	son.
4.2 Most important symptoms an	effects, both acute and delayed	
Symptoms	Cough Respiratory disorder Allergic reactions Headache See Section 11 for more detailed information on heal and symptoms.	th effects
Risks	irritant effects sensitising effects	
	May cause an allergic skin reaction. Harmful if inhaled. May cause respiratory irritation.	
4.3 Indication of any immediate n	dical attention and special treatment needed	

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Treat symptomatically	
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Date of last issue: 26.07.2022 Revision Date: 18.10.2022	Version 3.2	Print Date 18.10.20
SECTION 5: Firefighting measure	ures	
5.1 Extinguishing media		
Suitable extinguishing media	: In case of fire, use water/water spray/water ide/sand/foam/alcohol resistant foam/cher extinction.	
5.2 Special hazards arising from t	he substance or mixture	
Hazardous combustion prod- ucts	: No hazardous combustion products are ki	nown
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-contained br	eathing apparatus.
Further information	: Standard procedure for chemical fires.	
	Deny access to unprotected persons.	
6.2 Environmental precautions		
	: Do not flush into surface water or sanitary If the product contaminates rivers and lake respective authorities.	
6.3 Methods and material for cont	ainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent material (e.g acid binder, universal binder, sawdust). Keep in suitable, closed containers for dis	-
6.4 Reference to other sections		
For personal protection see see	ction 8.	
SECTION 7: Handling and stor	age	
7.1 Precautions for safe handling		
Advice on safe handling	: Avoid exceeding the given occupational e section 8).	xposure limits (see
	Do not get in eyes, on skin, or on clothing For personal protection see section 8.	



Date of last issue: 26.07.2022 Revision Date: 18.10.2022		Version 3.2	Print Date 18.10.2022
		Persons with a history of skin sensitisa ma, allergies, chronic or recurrent resp not be employed in any process in whit used. Smoking, eating and drinking should be plication area. Provide sufficient air exchange and/or Follow standard hygiene measures whe products	iratory disease should ch this mixture is being e prohibited in the ap- exhaust in work rooms.
Advice on protection against fire and explosion	:	Normal measures for preventive fire pr	otection.
Hygiene measures	:	Handle in accordance with good indust practice. When using do not eat or drin smoke. Wash hands before breaks and	nk. When using do not
7.2 Conditions for safe storage,	inc	luding any incompatibilities	
Requirements for storage areas and containers	:	Store in original container. Keep in a w Containers which are opened must be kept upright to prevent leakage. Obser Store in accordance with local regulation	carefully resealed and ve label precautions.
Further information on stor- age stability	:	No decomposition if stored and applied	as directed.
7.3 Specific end use(s)			
Specific use(s)	:	Consult most current local Product Dat use.	a Sheet prior to any

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters *	Basis *
HDI oligomers, isocyanurate	28182-81-2	TWA	0,02 mg/m3 (NCO)	GB EH40
	asthma (also can induce a immunologica become hype sometimes ev toms. These asthma. Not a come hyper-r those who are	nation: Substances t known as asthmage state of specific airw al irritant or other me er-responsive, further ven in tiny quantities symptoms can range all workers who are of responsive and it is in e likely to become has a occupational asthi	ans and respiratory vay hyper-respons chanism. Once the exposure to the s , may cause respi e in severity from a exposed to a sens mpossible to ident yper-responsive.	y sensitisers) iveness via an e airways have substance, ratory symp- a runny nose to itiser will be- ify in advance Substances

Date of last issue: 26.07.2022 Revision Date: 18.10.2022 Version 3.2

substances which may trigger the symptoms of asthma in people with pre-existing airway hyper-responsiveness, but which do not include the disease themselves. The latter substances are not classified as asthmagens or respiratory sensitisers. Further information can be found in the HSE publication Asthmagen? Critical assessments of the evidence for agents implicated in occupational asthma., Wherever it is reasonably practicable, exposure to substances that can cause occupational asthma should be prevented. Where this is not possible, the primary aim is to apply adequate standards of control to prevent workers from becoming hyperresponsive. For substances that can cause occupational asthma, COSHH requires that exposure be reduced to as low as is reasonably practicable. Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance., Capable of causing occupational asthma., The 'Sen' notation in the list of WELs has been assigned only to those substances which may cause occupational asthma in the categories shown in Table 1. It should be remembered that other substances not in these tables may cause occupational asthma. HSE's asthma web pages

	(www.hse.gov.	uk/asthma) provide	further informatio	n.
		STEL	0,07 mg/m3 (NCO)	GB EH40
*TI I I I I I I I I I I I I I I I I I I			6 . 6 6L	

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

Biological occupational exposure limits

Substance name	CAS-No.	Control parame- ters	Sampling time	Basis
HDI oligomers, isocyanurate	28182-81-2	isocyanate- derived diamine (Isocyanates): 1 µmol/mol creati- nine (Urine)	At the end of the period of expo- sure	GB EH40 BAT

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye protection	:	Safety glasses with side-shields conforming to EN166
		Eye wash bottle with pure water
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.



Print Date 18.10.2022



Date of last issue: 26.07.2022 Revision Date: 18.10.2022	Version 3.2	Print Date 18.10.2022
	Suitable for short time use or protection Butyl rubber/nitrile rubber gloves (> 0,1 r Contaminated gloves should be remove Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.	mm)
Skin and body protection	 Protective clothing (e.g. Safety shoes ac long-sleeved working clothing, long trous and protective boots are additionally reco and stirring work. 	sers). Rubber aprons
Respiratory protection	 In case of inadequate ventilation wear re Respirator selection must be based on k exposure levels, the hazards of the prod ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < Ensure adequate ventilation. This can be exhaust extraction or by general ventilat ods for determining inhalation exposure) ticular to the mixing / stirring area. In case to keep the concentrations under the occ- limits then respiration protection measure Ensure adequate ventilation, especially 	10000 ppm e achieved by local ion. (EN 689 - Meth-). This applies in par- se this is not sufficent cupational exposure res must be used.
Environmental exposure con	trols	
General advice	: Do not flush into surface water or sanita If the product contaminates rivers and la	, ,

respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour Odour	:	liquid (20 °C) colourless very faint			
Melting point/range / Freezing point	:	No data available			
Boiling point/boiling range	:	No data available			
Flammability (solid, gas)	:	No data available			
Upper/lower flammability or explosive limits					

Upper explosion limit / Up-	:	No data available
per flammability limit		

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



SikaBiresin® KL100 (B)

Date of last issue: 26.07.2022 Revision Date: 18.10.2022		Version 3.2	Print Date 18.10.2022
Lower explosion limit / Lower flammability limit	:	No data available	
Flash point	:	ca. 160 °C Method: closed cup	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
рН	:	Not applicable substance/mixture is non-soluble (in water)	
Viscosity			
Viscosity, dynamic	:	ca. 1.200 mPa.s (23 °C)	
Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)	
Solubility(ies)			
Water solubility	:	No data available	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,01 hPa	
Density	:	ca. 1,17 g/cm3 (20 °C)	
Relative vapour density	:	No data available	
Particle characteristics	:	No data available	

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



SikaBiresin[®] KL100 (B)

Date of last issue: 26.07.2022 Revision Date: 18.10.2022	Version 3.2	Print Date 18.10.2022
Conditions to avoid	No data available	
10.5 Incompatible materials Materials to avoid	No data available	
10.6 Hazardous decomposition pro No decomposition if stored and a		
SECTION 11: Toxicological info	rmation	
11.1 Information on hazard classes	as defined in Regulation (EC) No 1272/2008	
Acute toxicity Harmful if inhaled.		
Components:		
HDI oligomers, isocyanurate: Acute oral toxicity :	LD50 Oral (Rat): > 2.500 mg/kg	
Acute inhalation toxicity :	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement	
	Acute toxicity estimate: 1,5 mg/l Test atmosphere: dust/mist Method: Calculation method	
Acute dermal toxicity :	LD50 Dermal (Rat): > 2.000 mg/kg	
Skin corrosion/irritation Not classified based on available	information.	
Serious eye damage/eye irritat Not classified based on available		
Respiratory or skin sensitisati	on	
Skin sensitisation May cause an allergic skin react	on.	
Respiratory sensitisation Not classified based on available		
Germ cell mutagenicity Not classified based on available		



Date of last issue: 26.07.2022 Revision Date: 18.10.2022 Version 3.2

Print Date 18.10.2022

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

HDI oligomers, isocyanurate:

Toxicity to daphnia and other	:	EC50 (Daphnia (water flea)): > 100 mg/l
aquatic invertebrates		Exposure time: 48 h

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12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or



Date of last issue: 26.07.2022 Version 3.2 Print Date 18.10.2022 Revision Date: 18.10.2022 very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher... 12.6 Endocrine disrupting properties Product: : The substance/mixture does not contain components consid-Assessment ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects Product: Additional ecological infor-There is no data available for this product. 1 mation **SECTION 13: Disposal considerations** 13.1 Waste treatment methods Product The generation of waste should be avoided or minimized :

	 wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil waterways, drains and sewers
	soil, waterways, drains and sewers.

SECTION 14: Transport information

14.1 UN number		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



SikaBiresin[®] KL100 (B)

Date of last issue: 26.07.2022 Revision Date: 18.10.2022	Version 3.2	Print Date 18.10.2022
IMDG :	Not regulated as a dangerous good	
IATA :	Not regulated as a dangerous good	
14.3 Transport hazard class(es)		
ADR :	Not regulated as a dangerous good	
IMDG :	Not regulated as a dangerous good	
IATA :	Not regulated as a dangerous good	
14.4 Packing group		
ADR :	Not regulated as a dangerous good	
IMDG :	Not regulated as a dangerous good	
IATA (Cargo)	Not regulated as a dangerous good	
IATA (Passenger)	Not regulated as a dangerous good	
14.5 Environmental hazards Not regulated as a dangerous go	bod	
14.6 Special precautions for user		
Not applicable		
	o Annex II of Marpol and the IBC Code oplied.	

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	: Conditions of restriction for the fol- lowing entries should be considered:
International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation Control of Major Accident Hazards Regulations 2015 (COMAH) Volatile organic compounds : Law on the incentive (VOCV) no VOC duties	: Not applicable Not applicable tax for volatile organic compounds

Directive 2010/75/EU of 24 November 2010 on industrial



Date of last issue: 26.07.2022 Revision Date: 18.10.2022 Version 3.2

Print Date 18.10.2022

emissions (integrated pollution prevention and control) Not applicable

If other regulatory information applies that is not already provided elsewhere in the Safety Data Sheet, then it is described in this subsection.

Health, safety and environmental regulation/legislation specific for the substance or mixture: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations (COSHH)
 May be subject to the Control of Major Accident Hazards Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance by the supplier.

SECTION 16: Other information

Full text of other appreviation	of other abbreviations
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GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT	:	UK. Biological monitoring guidance values
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)
ADR	:	European Agreement concerning the International Carriage of
		Dangerous Goods by Road
CAS	:	Chemical Abstracts Service
DNEL	:	Derived no-effect level
EC50	:	Half maximal effective concentration
GHS	÷	Globally Harmonized System
IATA	÷	International Air Transport Association
IMDG	÷	International Maritime Code for Dangerous Goods
LD50	÷	Median lethal dosis (the amount of a material, given all at
		once, which causes the death of 50% (one half) of a group of
		test animals)
LC50		Median lethal concentration (concentrations of the chemical in
		air that kills 50% of the test animals during the observation
		period)
MARPOL	•	International Convention for the Prevention of Pollution from
	•	Ships, 1973 as modified by the Protocol of 1978
OEL		Occupational Exposure Limit
PBT	:	Persistent, bioaccumulative and toxic
PNEC		Predicted no effect concentration
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament
	•	and of the Council of 18 December 2006 concerning the Reg-
		istration, Evaluation, Authorisation and Restriction of Chemi-
		cals (REACH), establishing a European Chemicals Agency
SVHC		Substances of Very High Concern
vPvB	:	Very persistent and very bioaccumulative
	•	



Date of last issue: 26.07.2022 Revision Date: 18.10.2022 Version 3.2

Print Date 18.10.2022

Further information

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GB / EN