Version 6.1

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

1.1 Product identifier

Trade name

: Sikaflex[®]-221

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

Product use : Sealant/adhesive

1.3 Details of the supplier of the safety data sheet

Company name of supplier	: Sika Poland Spółka z o.o.
	Karczunkowska 89
	02-871 Warszawa
Telephone	: +48 22 27 28 700
Telefax	: +48 22 27 28 800
E-mail address of person	: EHS@pl.sika.com
responsible for the SDS	

1.4 Emergency telephone number

112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Specific target organ toxicity - repeated exposure, Category 2, Central nervous system	H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
		H373	May cause damage to organs (Central nerv- ous system) through prolonged or repeated

Sikaflex[®]-221

Print Date 05.02.2024

Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1

exposure if inhaled.

Precautionary statements :	Prevention: P260 P284	Do not breathe mist or vapours. In case of inadequate ventilation wear respir- atory protection.
	Response:	
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
	P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
	Disposal:	
	P501	Dispose of contents/container in accordance with local regulation.

Hazardous components which must be listed on the label:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) 4,4'-methylenediphenyl diisocyanate m-tolylidene diisocyanate

Additional Labelling

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

"As from 24 August 2023 adequate training is required before industrial or professional use."

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.

Revision Date: 12.01.2024
Date of last issue: 20.11.2023



Version 6.1

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Urea,N,N''-(methylenedi-4,1- phenylene)bis[N'-butyl-	77703-56-1 416-600-4 01-0000016345-72- XXXX	Aquatic Chronic 4; H413	>= 2,5 - < 5
reaction mass of ethylbenzene and xylene	Not Assigned 905-588-0 01-2119488216-32- XXXX	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 1 - < 2,5
Hydrocarbons, C9-C12, n- alkanes, isoalkanes, cyclics, aro- matics (2-25%)	Not Assigned 919-446-0 265-185-4 01-2119458049-33- XXXX [corresponding group CAS 64742-82- 1]	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT RE 1; H372 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 1 - < 2,5

Sikaflex[®]-221

Revision Date: 12.01.2024 Date of last issue: 20.11.2023



4,4'-methylenediphenyl diisocya- nate	101-68-8 202-966-0 01-2119457014-47- XXXX	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 specific concentration limit Eye Irrit. 2; H319 >= 5 % STOT SE 3; H335 >= 5 % Skin Irrit. 2; H315 >= 5 % Resp. Sens. 1; H334 >= 0,1 % Acute toxicity esti- mate Acute inhalation tox- icity (dust/mist): 1,5	>= 0,5 - < 1
m-tolylidene diisocyanate	26471-62-5 247-722-4 01-2119454791-34- XXXX	mg/l Acute Tox. 1; H330 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 Skin Sens. 1; H317 Carc. 2; H351 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 specific concentration limit Resp. Sens. 1; H334 >= 0,1 % Acute toxicity estimate Acute inhalation tox-icity (vapour): 0,107 mg/l	>= 0,0025 - < 0,025



Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1

Substances with a workplace exposure limit :				
Titanium dioxide (> 10 μm)	13463-67-7 236-675-5 01-2119489379-17- XXXX		>= 2,5 - < 5	
East and a stick of all has define				

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	:	Move to fresh air. Consult a physician after significant exposure.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
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 person.
4.2 Most important symptoms a	nd e	effects, both acute and delayed
Symptoms	:	Asthmatic appearance Allergic reactions See Section 11 for more detailed information on health effects and symptoms.
Risks	:	sensitising effects
		May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause damage to organs through prolonged or repeated exposure if inhaled.
4.3 Indication of any immediate	med	dical attention and special treatment needed
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Print Date 05.02.2024

Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction. 5.2 Special hazards arising from the substance or mixture Hazardous combustion prod: No hazardous combustion products are known ucts 5.3 Advice for firefighters Special protective equipment : In the event of fire, wear self-contained breathing apparatus. for firefighters

Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Deny access to unprotected persons.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid exceeding the given occupational exposure limits (see section 8).
		For personal protection see section 8.
		Persons with a history of skin sensitisation problems or asth- ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
		Smoking, eating and drinking should be prohibited in the ap-

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	Version 6.1	Print Date 05.02.2024
	plication area. Follow standard hygiene measures when handlin products	ng chemical
:	Normal measures for preventive fire protection.	
:	Handle in accordance with good industrial hygie practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the er	using do not
inc	luding any incompatibilities	
:	Keep container tightly closed in a dry and well-ve place. Store in accordance with local regulations	
:	No decomposition if stored and applied as direct	ed.
:	Cleaning with aprotic polar solvents must be ave Consult most current local Product Data Sheet p use.	
	: inc :	 plication area. Follow standard hygiene measures when handlin products Normal measures for preventive fire protection. Handle in accordance with good industrial hygie practice. When using do not eat or drink. When smoke. Wash hands before breaks and at the er including any incompatibilities Keep container tightly closed in a dry and well-we place. Store in accordance with local regulations No decomposition if stored and applied as direct Cleaning with aprotic polar solvents must be ave Consult most current local Product Data Sheet product Data

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parame-	Basis *	
		of exposure)	ters *		
Titanium dioxide (> 10 μm)	13463-67-7	NDS (inhalable	10 mg/m3	PL OEL	
		fraction)	-		
reaction mass of ethylbenzene and xy-	Not Assigned	TWA	50 ppm	2000/39/EC	
lene	_		221 mg/m3		
	Further inform	ation: Identifies the	possibility of signi	ficant uptake	
	through the sk	in, Indicative			
		STEL	100 ppm	2000/39/EC	
			442 mg/m3		
		NDS	100 mg/m3	PL OEL	
	Further information: Skin				
		NDSch	200 mg/m3	PL OEL	
Hydrocarbons, C9-C12, n-alkanes, isoal- kanes, cyclics, aromatics (2-25%)	Not Assigned	NDS	300 mg/m3	PL OEL	
		NDSch	900 mg/m3	PL OEL	
4,4'-methylenediphenyl diisocyanate	101-68-8	NDS	0,03 mg/m3	PL OEL	
· · ·		NDSch	0,09 mg/m3	PL OEL	
m-tolylidene diisocyanate	26471-62-5	NDS	0,007 mg/m3	PL OEL	
· ·		NDSch	0,021 mg/m3	PL OEL	



Revision Date: 12.01.2024 Date of last issue: 20.11.2023

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

8.2 Exposure controls

Engineering measures

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

Personal protective equipment				
Eye/face 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.			
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.			
Skin and body protection :	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.			
Respiratory protection :	In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe work- ing limits of the selected respirator. Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk as- sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Meth- ods for determining inhalation exposure). This applies in par- ticular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.			

Environmental exposure controls

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Print Date 05.02.2024

Revision Date: 12.01.2024
Date of last issue: 20.11.2023

Dale	01 1851 15508. 20.11.2025		
	Physical state Appearance Colour	:	liquid paste various
	Odour	:	slight
	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 e	axe	losive limits
	Upper explosion limit / Up- per flammability limit	-	
	Lower explosion limit / Lower flammability limit	:	No data available
	Flash point	:	76 °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	:	Not applicable
	Viscosity, kinematic	:	> 20,5 mm2/s (40 °C)
	Solubility(ies)		
	Water solubility	:	insoluble
	Partition coefficient: n- octanol/water	:	No data available
	Vapour pressure	:	0,01 hPa

Sikaflex[®]-221



Revision Date: 12.01.2024 Date of last issue: 20.11.2023	Version 6.1	Print Date 05.02.2024
Density	: ca. 1,26 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

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Not classified due to lack of data.

Components:

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:

Acute oral toxicity	:	LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402

Print Date 05.02.2024

Revision Date: 12.01.2024	
Date of last issue: 20.11.2023	

Version 6.1

reaction mass of ethylbenzene and xylene:						
Acute oral toxicity :	LD50 Oral (Rat): 3.523 mg/kg					
4,4'-methylenediphenyl diisocyanate:						
Acute oral toxicity :	LD50 Oral (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401					
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					
m-tolylidene diisocyanate:						
Acute inhalation toxicity :	LC50 (Rat): 0,107 mg/l Exposure time: 4 h Test atmosphere: vapour					
	Acute toxicity estimate: 0,107 mg/l Test atmosphere: vapour Method: Calculation method					

Skin corrosion/irritation

Not classified due to lack of data.

Components:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Assessment	:	Repeated exposure may cause skin dryness or cracking.
Result	:	Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Not classified due to lack of data.

Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

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

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1



Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure if inhaled.

Aspiration toxicity

Not classified due to lack of data.

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:

Urea,N,N"-(methylenedi-4,1-phenylene)bis[N'-butyl-:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l Exposure time: 96 h	
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h	
Toxicity to algae/aquatic plants	:	EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l Exposure time: 72 h	
reaction mass of ethylbenzene and xylene:			
Toxicity to fish (Chronic tox- icity)	:	NOEC: > 1,3 mg/l Exposure time: 56 d Species: Oncorhynchus mykiss (rainbow trout)	

Toxicity to daphnia and other	:	NOEC: 1,17 mg/l
aquatic invertebrates (Chron-		Exposure time: 7 d
ic toxicity)		Species: Daphnia (water flea)

Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1



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 very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

Product:		
Assessment	:	The substance/mixture does not contain components consid- 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- mation	:	There is no data available for this product.

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.
European Waste Catalogue	: 08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
	40/

Sikaflex[®]-221

Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1

Contaminated packaging

15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

14.1 UN number or ID number

	ADR	:	Not regulated as a dangerous good	
	IMDG	:	Not regulated as a dangerous good	
	ΙΑΤΑ	:	Not regulated as a dangerous good	
14.2	2 UN proper shipping name			
	ADR	:	Not regulated as a dangerous good	
	IMDG	:	Not regulated as a dangerous good	
	ΙΑΤΑ	:	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	
	ΙΑΤΑ	:	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 good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture International Chemical Weapons Convention (CWC) : Not applicable Schedules of Toxic Chemicals and Precursors

REACH Information: All substances contained in our Products are

Sikaflex[®]-221

Print Date 05.02.2024

Revision Date: 12.01.2024
Date of last issue: 20.11.2023

 registered by our upstream suppliers, and/or registered by us, and/or excluded from the regulation, and/or exempted from the registration. 				
REACH - Restrictions on the man the market and use of certain dan mixtures and articles (Annex XVII	gerous substances,	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 75, 3	
			4,4'-methylenediphenyl diisocyanate (Number on list 74, 56) m-tolylidene diisocyanate (Number on list 74) 1,2-Benzenedicarboxylic acid, di-C9- 11-branched alkyl esters, C10-rich (Number on list 52)	
REACH - Candidate List of Substa Concern for Authorisation (Article		:	None of the components are listed (=> 0.1 %).	
REACH - List of substances subje (Annex XIV)	ect to authorisation	:	Not applicable	
Regulation (EC) No 1005/2009 or plete the ozone layer	n substances that de-	:	Not applicable	
Regulation (EU) 2019/1021 on pe tants (recast)	rsistent organic pollu-	:	Not applicable	
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals			Not applicable	
Seveso III: Directive 2012/18/EU jor-accident hazards involving dar		nent	t and of the Council on the control of ma-	
Volatile organic compounds :	(VOCV)		or volatile organic compounds ds (VOC) content: 3,54% w/w	
	emissions (integrated	poll	4 November 2010 on industrial ution prevention and control) ds (VOC) content: 3,54% w/w	

Sikaflex[®]-221

Revision Date: 12.01.2024 Date of last issue: 20.11.2023 Version 6.1



Other regulations:

Act of February 25, 2011 on chemical substances and their mixtures (i.e. Journal of Laws of 2020, item 2289)

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (Dz.U 2018 pos 1286, with later amendments).

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166 with later amendments).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (consolidated text, Journal of Laws 2016 no. 0 item 1488)

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste (Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of February 15, 2021 on the entry into force of amendments to Annexes A and B to Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), drawn up in Geneva on September 30, 1957 (Journal of Laws 202 poz.874 as amended)

Version 6.1



Revision Date: 12.01.2024 Date of last issue: 20.11.2023

Act of July 29, 2005 on drug addiction prevention (Journal of Laws of 2005, No. 179, item 1485, with later amendments)

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

H226 H304 H312 H315 H317 H319 H330 H332 H334		Flammable liquid and vapour. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation.
H336	:	May cause drowsiness or dizziness.
H351	:	Suspected of causing cancer.
H372	:	Causes damage to organs through prolonged or repeated exposure if inhaled.
H373	:	May cause damage to organs through prolonged or repeated exposure if inhaled.
H411	:	Toxic to aquatic life with long lasting effects.
H412	:	Harmful to aquatic life with long lasting effects.
H413	:	May cause long lasting harmful effects to aquatic life.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Carc.	:	Carcinogenicity
Eye Irrit.	:	Eye irritation
Flam. Liq.	÷	Flammable liquids
Resp. Sens. Skin Irrit.	:	Respiratory sensitisation Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE	÷	Specific target organ toxicity - repeated exposure
STOT SE	÷	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first

Sikaflex[®]-221

Jika ®
Print Date 05.02.2024

Revision Date: 12.01.2024	Version 6.1
Date of last issue: 20.11.2023	

PL OEL	:	list of indicative occupational exposure limit values Ordinance of the Minister of Family, Labour and Social Policy of 12 June 2018 concerning the highest allowable concentra- tions and levels of the agents harmful for health in the work- place (Dz.U 2018 pos 1286, with later amendments)
2000/39/EC / TWA		Limit Value - eight hours
2000/39/EC / STEL	÷	Short term exposure limit
PL OEL / NDS	:	Maximal Admissible Concentration
PL OEL / NDSch	:	Maximal Admissible Temporary Concentration
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
ΙΑΤΑ	:	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

Further information

Classification of the mix	Classification procedure:	
Resp. Sens. 1	H334	Calculation method
STOT RE 2	H373	Calculation method

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 !

PL/EN

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 Sikaflex®-221

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