

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1 Pr	roduct identifier			
Т	rade name	:	Sikafloor [®] -19/20/21/22/24/25ECF/29/31 PurCem [®] (B)	
1.2 Re	elevant identified uses of th	ne s	ubstance or mixture and uses advised against	
P	Product use	:	Polyurethane coating	
1.3 De	etails of the supplier of the	saf	ety data sheet	
C	Company	:	Sika Limited Watchmead Welwyn Garden City Hertfordshire AL71BQ United Kingdom	
Т	elephone	:	+44 (0)1707 394444	
1.4 Er	mergency telephone numb	er		
-	Emergency telephone num- ber	:	+44 (0)1707 363899 (available during office hours)	

Version 5.0

SECTION 2: Hazards identification

Revision Date 11.02.2016

2.1 Classification of the substance or mixture

Type of product : Mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H332: Harmful if inhaled. Skin irritation, Category 2 H315: Causes skin irritation. Eye irritation, Category 2 H319: Causes serious eye irritation. Respiratory sensitisation, Category 1 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitisation, Category 1 H317: May cause an allergic skin reaction. Carcinogenicity, Category 2 H351: Suspected of causing cancer. Specific target organ toxicity - single ex-H335: May cause respiratory irritation. posure, Category 3, Respiratory system Specific target organ toxicity - repeated H373: May cause damage to organs through pro-

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

exposure, Category 2



longed or repeated exposure.



Revision Date 11.02.2016		Ve	ersion 5.0	Print Date 11.0
Signal word	:	Danger		
Hazard statements	:	H315	Causes skin irritation.	
		H317	May cause an allergic skin re	action.
		H319	Causes serious eye irritation.	
		H332	Harmful if inhaled.	
		H334	May cause allergy or asthma breathing difficulties if inhaled	
		H335	May cause respiratory irritation	
		H351	Suspected of causing cancer	
		H373	May cause damage to organs longed or repeated exposure.	s through pro-
Precautionary statements	:	Prevention:		
,		P201	Obtain special instructions be	fore use.
		P260	Do not breathe dust/ fume/ ga pours/ spray.	
		P280	Wear protective gloves/ prote eye protection/ face protection	
		P284	In case of inadequate ventilat piratory protection.	
		Response:		
		-	312 IF INHALED: Remove per air and keep comfortable for the a POISON CENTER or doctory you feel unwell.	breathing. Call
		P308 + P313	IF exposed or concerned: Ge vice/ attention.	t medical ad-

Hazardous components which must be listed on the label:

- 9016-87-9 Diphenylmethanediisocyanate, isomeres and homologues
- 247-714-0 methylenediphenyl diisocyanate

Additional Labelling:

EUH204 Contains isocyanates. May produce an allergic reaction.

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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Diphenylmethanediisocyanate, isomeres and homo-	Acute Tox.4; H332	>= 50 - <= 100



Revision Date 11.02.2016	Version 5.0	Print Date 11.02
logues 9016-87-9	Skin Irrit.2; H315 Eye Irrit.2; H319 Resp. Sens.1; H334 Skin Sens.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373	
methylenediphenyl diisocyanate 26447-40-5 247-714-0	Acute Tox.4; H332 Skin Irrit.2; H315 Eye Irrit.2; H319 Resp. Sens.1; H334 Skin Sens.1; H317 Carc.2; H351 STOT SE3; H335 STOT RE2; H373	>= 50 - <= 100

For the full text of the H-Statements mentioned in this Section, 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	 Immediately flush eye(s) with plenty of water. 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	and effects, both acute and delayed
Symptoms	: Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache



Revision Date 11.02.2016	Version 5.0	Print Date 11.02.
	Dermatitis See Section 11 for more detailed informati and symptoms.	on on health effects
Risks	: irritant effects sensitising effects	
	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prol exposure.	-
4.3 Indication of any immediate	e medical attention and special treatment need	ded

Treatment	: Treat symptoma	atically.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
5.2 Special hazards arising from	the substance or mixture
Hazardous combustion prod- ucts	: No hazardous combustion products are known
5.3 Advice for firefighters	
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
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



Revision Date 11.02.2016	Version 5.0	Print Date 11.02.201
Environmental precautions	: Do not flush into surface water or sanita If the product contaminates rivers and la respective authorities.	
6.3 Methods and materials for co	ontainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent material (e acid binder, universal binder, sawdust). Keep in suitable, closed containers for c	

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 formation of aerosol. Avoid exceeding the given occu- pational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. 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 application area. Provide sufficient air exchange and/or ex- haust in work rooms. Follow standard hygiene measures when handling chemical products
	Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
	Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
7.2	Conditions for safe storage,	inc	luding any incompatibilities
	Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Store in accord- ance with local regulations.
	Other data	:	No decomposition if stored and applied as directed.
7.3	Specific end use(s)		
	Specific use(s)	:	No data available



Revision Date 11.02.2016

Version 5.0

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Components	CAS-No.	Value	Control parame- ters *	Basis *
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40
methylenediphenyl diisocyanate	26447-40-5	TWA	0,02 mg/m3	GB EH40
		STEL	0,07 mg/m3	GB EH40

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
Diphenylmethanediisocy- anate, isomeres and homologues	9016-87-9	urinary diamine: 1µmol/mol creati- nine (Urine)	Post task	GB EH40 BAT
methylenediphenyl diiso- cyanate	26447-40-5	urinary diamine: 1µmol/mol creati- nine (Urine)	Post task	GB EH40 BAT

8.2 Exposure controls

Personal protective equipment

Eye protection	: Safety glasses with side-shields Eye wash bottle with pure water
Hand protection	: Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.
	Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (0,4 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
Country GB 00000608755	6 /



Revision Date 11.02.2016	Version 5.0	Print Date 11.02.2
	and stirring work.	
Respiratory protection	 Respirator selection must be based of exposure levels, the hazards of the pring limits of the selected respirator. Use a properly fitted NIOSH approved respirator complying with an approved sessment indicates this is necessary. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3 Ensure adequate ventilation. This car exhaust extraction or by general venti ods for determining inhalation exposu- ticular to the mixing / stirring area. In to keep the concentrations under the limits then respiration protection measures 	roduct and the safe work- d air-purifying or air-fed d standard if a risk as- a: < 10000 ppm n be achieved by local ilation. (EN 689 - Meth- ire). This applies in par- case this is not sufficent occupational exposure
	Ensure adequate ventilation, especial	lly in confined areas.
Environmental exposure of	controls	
General advice	 Do not flush into surface water or san If the product contaminates rivers and respective authorities. 	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Colour	:	light brown
Odour	:	characteristic
Odour Threshold	:	No data available
Flash point	:	> 150 °C
Autoignition temperature	:	No data available
Lower explosion limit (Vol-%)	:	No data available
Upper explosion limit (Vol-%)	:	No data available
Flammability	:	No data available
Oxidizing properties	:	No data available
рН	:	Not applicable

Version 5.0



	Melting point/range / Freez- ng point	:	No data available
	Boiling point/boiling range	:	No data available
١	√apour pressure	:	0,01 hPa
[Density	:	ca.1,23 g/cm3 at 20 °C
١	Nater solubility	:	insoluble
	Partition coefficient: n-	:	No data available
١	∕iscosity, dynamic	:	ca.40 - 80 mPa.s at 20 °C
١	viscosity, kinematic	:	> 20,5 mm2/s at 40 °C
ł	Relative vapour density	:	ca.8,5
ł	Evaporation rate	:	No data available

Revision Date 11.02.2016

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	:	Stable under recommended storage conditions.
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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

Hazardous decomposition	:
products	No decomposition if stored and applied as directed.



Revision Date 11.02.2016

Version 5.0

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Harmful if inhaled.	
Components:	
	nate, isomeres and homologues:
Acute oral toxicity	: LD50 Oral (Rat): > 10.000 mg/kg
Acute inhalation toxicity	: Acute toxicity estimate: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 9.400 mg/kg
Skin corrosion/irritation	
Causes skin irritation.	
Serious eye damage/eye i	rritation
Causes serious eye irritation	٦.
Respiratory or skin sensit	isation
Skin sensitisation: May caus Respiratory sensitisation: M	se an allergic skin reaction. ay cause allergy or asthma symptoms or breathing difficulties if inha
Germ cell mutagenicity	
Not classified based on avail	ilable information.
Carcinogenicity	
Suspected of causing cance	er.
Reproductive toxicity	
Not classified based on avail	ilable information.
STOT - single exposure	
May cause respiratory irritat	ion.
STOT - repeated exposure	9
May cause damage to organ	ns through prolonged or repeated exposure.
Aspiration toxicity	
	ilable information.

12.1 Toxicity

No data available

12.2 Persistence and degradability



Revision Date 11.02.2016

Version 5.0

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 Other adverse effects

No data available

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 05 01* waste isocyanates
Contaminated packaging	 15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

ADR Not dangerous goods IATA Not dangerous goods IMDG



Revision Date 11.02.2016

Version 5.0

Not dangerous goods

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14.6 Special precautions for user

No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

SECTION 15: Regulatory information

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

	Prohibition/Restriction			
	REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,			Banned and/or restricted (Diphenylmethanediisocyanate,
	preparations and articles (Annex 2	XVII)		isomeres and homologues) (methylenediphenyl diisocyanate)
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).			:	None of the components are listed (=> 0.1 %).
REACH - List of substances subject to authorisation (Annex XIV)			:	Not applicable
	REACH Information:	All substances contained in our Products are - preregistered or registered by our upstream suppliers, and/or - preregistered or registered by us, and/or - excluded from the regulation, and/or - exempted from the registration.		
	Seveso III: Directive 2012/18/EU	of the European Parliamer	nt	and of the Council on the control of ma

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

VOC-CH (VOCV)	:	no VOC duties
VOC-EU (solvent)	:	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 environ- mental regulation/legislation specific for the substance or mixture:	:	The Chemicals (Hazard Information and Packaging for Sup- ply) Regulations 2002 Control of Substances Hazardous to Health Regulations 2002 The Management of Health and Safety at Work Regulations 1999 Health and Safety at Work Act 1974 Environmental Protection Act 1990 & Subsidiary Regulations
		Environmental Protection Act 1990 & Subsidiary Regulations



Revision Date 11.02.2016

Version 5.0

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Full text of H-Statements	
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 in- haled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
Full text of other abbreviations	
Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
Resp. Sens.	Respiratory sensitisation
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
ADR	Accord européen relatif au transport international des marchandises
	Dangereuses par Route
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 Registration, Evaluation,
	Authorisation and Restriction of Chemicals (REACH), establishing a
	European Chemicals Agency
SVHC	Substances of Very High Concern
vPvB	Very persistent and very bioaccumulative
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Revision Date 11.02.2016

Version 5.0

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 !