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

#### 1.1 Product identifier

Trade name : Sarnacol<sup>®</sup>-2142 V

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

Product use : Adhesive, For professional users only.

#### 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 Telefax E-mail address of person responsible for the SDS	:	+44 (0)1707 394444 +44 (0)1707 329129 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 12 Acute toxicity, Category 4	<b>72/2008)</b> 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- posure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through pro- longed or repeated exposure if inhaled.

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2.2 Label elements				
Labelling (REGULATION (I	EC)	No 1272/2008)		
Hazard pictograms	:		!	
Signal word	:	Danger	•	
Hazard statements	:	H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin reaction Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma sym breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs thro longed or repeated exposure if inh	ptoms or bugh pro-
Precautionary statements	:	<b>Prevention:</b> P201 P260 P264 P280	Obtain special instructions before Do not breathe mist or vapours. Wash skin thoroughly after handlin Wear protective gloves/ protective eye protection/ face protection.	ng.
		<b>Response:</b> P304 + P340 + P342 + P311	P312 IF INHALED: Remove perso air and keep comfortable for breat POISON CENTER/ doctor if you f If experiencing respiratory sympto POISON CENTER/ doctor.	thing. Call a eel unwell.

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### Hazardous components which must be listed on the label:

4,4'-methylenediphenyl diisocyanate

### Additional Labelling

"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.



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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**

#### 3.2 Mixtures

#### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
4,4'-methylenediphenyl diisocya-	Registration number 101-68-8	Acute Tox. 4; H332	>= 60 - < 80
nate	202-966-0 01-2119457014-47- XXXX	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 mg/l	
For evolution of obbroviations of			

For explanation of abbreviations see section 16.



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# **SECTION 4: First aid measures**

4.1 Description of first aid measures					
: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.					
: Move to fresh air. Consult a physician after significant exposure.					
<ul> <li>Take off contaminated clothing and shoes immediately.</li> <li>Wash off with soap and plenty of water.</li> <li>If symptoms persist, call a physician.</li> </ul>					
<ul> <li>Immediately flush eye(s) with plenty of water.</li> <li>Remove contact lenses.</li> <li>Keep eye wide open while rinsing.</li> <li>If eye irritation persists, consult a specialist.</li> </ul>					
<ul> <li>Do not induce vomiting without medical advice.</li> <li>Rinse mouth with water.</li> <li>Do not give milk or alcoholic beverages.</li> <li>Never give anything by mouth to an unconscious person.</li> </ul>					
d effects, both acute and delayed					
<ul> <li>Asthmatic appearance Cough Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis See Section 11 for more detailed information on health effects and symptoms.</li> </ul>					
<ul> <li>irritant effects sensitising effects</li> <li>Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled.</li> </ul>					



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_ *	edical attention and special treatment no Treat symptomatically.	eeded
Treatment	Treat symptomatically.	
SECTION 5: Firefighting measu	ires	
5.1 Extinguishing media		
Suitable extinguishing media	In case of fire, use water/water spray/wa ide/sand/foam/alcohol resistant foam/ch extinction.	
5.2 Special hazards arising from the	ne 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, protecti Personal precautions	ve equipment and emergency procedure Use personal protective equipment.	25

#### **6.2 Environmental precautions**

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform
		respective authorities.

Deny access to unprotected persons.

# 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.



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# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling Advice on safe handling Avoid formation of aerosol. Avoid exceeding the given occupational 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 asthma, 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 exhaust in work rooms. Follow standard hygiene measures when handling chemical products Advice on protection against • Normal measures for preventive fire protection. fire and explosion Handle in accordance with good industrial hygiene and safety Hygiene measures 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, including any incompatibilities Requirements for storage Keep container tightly closed in a dry and well-ventilated : place. Containers which are opened must be carefully reareas and containers sealed and kept upright to prevent leakage. Store in accordance with local regulations. Further information on stor-No decomposition if stored and applied as directed. age stability 7.3 Specific end use(s) Specific use(s) Cleaning with aprotic polar solvents must be avoided. Consult most current local Product Data Sheet prior to any use.

# 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 *	



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4,4'-methylenediphenyl diisocyanate	101-68-8	TWA	0,02 mg/m3 (NCO)	GB EH40	

			(NCO)	
	Further information: Capable of causing occupational asthr			al asthma.
		GB EH40		
			(NCO)	

\*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
4,4'-methylenediphenyl diisocyanate	101-68-8	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/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 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 (> 0,1 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 additionally 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)



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	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 can to keep the concentrations under the or limits then respiration protection measu Ensure adequate ventilation, especially	be achieved by local ation. (EN 689 - Meth- e). This applies in par- ase this is not sufficent ccupational exposure ures must be used.
Environmental exposur	e controls	
General advice	: Do not flush into surface water or sanita If the product contaminates rivers and la respective authorities.	

# 9.1 Information on basic physical and chemical properties

Physical state Colour	:	liquid blue
Odour	:	characteristic
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 (	exp	losive limits
Upper/lower flammability or o Upper explosion limit / Up- per flammability limit	•	
Upper explosion limit / Up-	•	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Upper explosion limit / Up- per flammability limit Lower explosion limit / Lower flammability limit	:	No data available No data available



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рН	: Not applicable substance/mixture reacts with water	
Viscosity		
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. 1,12 g/cm3 (20 °C)	
Relative vapour density	: No data available	
Particle characteristics	: No data available	
<b>9.2 Other information</b> No data available		
SECTION 10: Stability and	reactivity	
10.1 Reactivity		
•	own under conditions of normal use.	
<ul><li>10.1 Reactivity</li><li>No dangerous reaction kno</li><li>10.2 Chemical stability</li></ul>	wn under conditions of normal use.	
No dangerous reaction kno		
No dangerous reaction kno 10.2 Chemical stability	stable.	
No dangerous reaction kno <b>10.2 Chemical stability</b> The product is chemically s	stable.	
No dangerous reaction kno <b>10.2 Chemical stability</b> The product is chemically s <b>10.3 Possibility of hazardous</b>	stable. reactions	

# 10.5 Incompatible materials

Materials to avoid	:	No data available
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### **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

Harmful if inhaled.

#### **Components:**

#### 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

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

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

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Suspected of causing cancer.

### **Reproductive toxicity**

Not classified based on available information.

#### STOT - single exposure

May cause respiratory irritation.



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STOT - repeated exposure	a prolonged or repeated experies	if inhold
May cause damage to organs through	r protoriged of repeated exposure	li innaled.
Aspiration toxicity		
Not classified based on available info	rmation.	

#### 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

No data available

#### 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 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.



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#### 12.7 Other adverse effects

### Product:

Additional ecological infor- : There is no data available for this product. 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.

# **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	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



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

# **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: 4,4'-methylenediphenyl diisocyanate (Number on list 74, 56)
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
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
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
 Control of Major Accident Hazards Regulations 2015 (COMAH)	Not	t applicable



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Volatile organic compounds :	: Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties						
	Directive 2010/75/EU of 24 November 2010 emissions (integrated pollution prevention a 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:	<ul> <li>Environmental Protection Act 1990 &amp; Subs Health and Safety at Work Act 1974 &amp; Subs Control of Substances Hazardous to Health (COSHH)</li> <li>May be subject to the Control of Major Acci Regulations (COMAH), and amendments.</li> </ul>	sidiary Regulations n Regulations					

#### 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**

H315 H317 H319 H332 H334 H335 H351 H373		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure if inhaled.		
Full text of other abbreviations				
Acute Tox. Carc. Eye Irrit. Resp. Sens. Skin Irrit. Skin Sens. STOT RE STOT SE GB EH40 GB EH40 BAT GB EH40 / TWA GB EH40 / STEL		Acute toxicity Carcinogenicity Eye irritation Respiratory sensitisation Skin irritation Skin sensitisation Specific target organ toxicity - repeated exposure Specific target organ toxicity - repeated exposure UK. EH40 WEL - Workplace Exposure Limits UK. Biological monitoring guidance values Long-term exposure limit (8-hour TWA reference period) Short-term exposure limit (15-minute reference period)		



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ADR	:	European Agreement cond Dangerous Goods by Roa		al Carriage of
CAS	:	Chemical Abstracts Servic		
DNEL	:	Derived no-effect level	-	
EC50	:	Half maximal effective con	centration	
GHS	:	Globally Harmonized Syste	em	
ΙΑΤΑ	:	International Air Transport	Association	
IMDG	:	International Maritime Cod		
LD50	:	Median lethal dosis (the amount of a material, given all at		
		once, which causes the de test animals)	eath of 50% (one half)	of a group of
LC50	:	Median lethal concentratio	on (concentrations of th	e chemical in
		air that kills 50% of the tes period)	t animals during the ol	bservation
MARPOL	:	International Convention for	or the Prevention of Po	ollution from
		Ships, 1973 as modified by	y 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 b	ioaccumulative	
Further information				
Classification of the mixture	:	C	lassification procedu	ıre:
Acute Tox. 4	H3	32 C	alculation method	
Skin Irrit. 2	H3		alculation method	
Eye Irrit. 2	H3	19 C	alculation method	
Resp. Sens. 1	H3	34 C	alculation method	
Skin Sens. 1	H3	17 C	alculation 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.

Calculation method

Calculation method

Calculation method

Changes as compared to previous version !

H351

H335

H373

GB / EN

Carc. 2

STOT SE 3

STOT RE 2

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

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