

Date of last issue: 08.06.2023	Version 3.4	Print Date 28.07.2023
Revision Date: 20.07.2023		

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

#### 1.1 Product identifier

Trade name

SikaBiresin<sup>®</sup> F150 (B)

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

Product use : Tooling system

## 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	:	EHS@uk.sika.com
responsible for the SDS		0

#### 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 irritation, Category 2 Eye irritation, Category 2 Respiratory sensitisation, Category 1

Skin sensitisation, Category 1 Carcinogenicity, Category 2 Specific target organ toxicity - single exposure, Category 3, Respiratory system Specific target organ toxicity - repeated exposure, Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



H332: Harmful if inhaled.

H315: Causes skin irritation.

breathing difficulties if inhaled.

H319: Causes serious eye irritation.

H351: Suspected of causing cancer.

H335: May cause respiratory irritation.

longed or repeated exposure if inhaled.

H334: May cause allergy or asthma symptoms or

H373: May cause damage to organs through pro-

H317: May cause an allergic skin reaction.

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



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Signal word :	Danger		
Hazard statements :	H315 H317 H319 H332 H334 H335 H351 H373	Causes skin irritation. May cause an allergic skin reac Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma sy breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs th longed or repeated exposure if i	rmptoms or nrough pro-
Precautionary statements :	<b>Prevention:</b> P201 P260 P264 P280	Obtain special instructions befor Do not breathe mist or vapours. Wash skin thoroughly after hand Wear protective gloves/ protecti eye protection/ face protection.	dling.
	<b>Response:</b> P304 + P340 + F P342 + P311	P312 IF INHALED: Remove pe air and keep comfortable for bre POISON CENTER/ doctor if you If experiencing respiratory symp POISON CENTER/ doctor.	eathing. Call a u feel unwell.

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

4,4'-Methylenediphenyl diisocyanate, oligomers

## 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.

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.



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# **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
4,4'-Methylenediphenyl diisocya- nate, oligomers Contains: 2,6-di-tert-butyl-p-cresol >= 0,1 - <= 0,25 %	Not Assigned 701-393-8 500-313-7 01-2119486870-28- 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	>=80

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

4.1 Description of mist and measure	
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



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	Allergic reactions	
	Excessive lachrymation	
	Erythema	
	Headache	
	Dermatitis	
	See Section 11 for more detailed informat and symptoms.	ion 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 o ties if inhaled.	r breathing difficul-
	May cause respiratory irritation.	
	Suspected of causing cancer.	
	May cause damage to organs through pro exposure if inhaled.	olonged or repeated
4.3 Indication of any imme	diate medical attention and special treatment nee	ded
Treatment	: Treat symptomatically.	

5.1	Extinguishing media		
	Suitable extinguishing media	:	In case of fire, use water/water spray/water jet/carbon diox- ide/sand/foam/alcohol resistant foam/chemical powder for extinction.
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.



easures	
equipment and emergency procedu	res
f the product contaminates rivers and I	
ment and cleaning up	
acid binder, universal binder, sawdust).	
	easures equipment and emergency procedur Use personal protective equipment. Deny access to unprotected persons. Do not flush into surface water or sanita If the product contaminates rivers and I respective authorities. ment and cleaning up Soak up with inert absorbent material ( acid binder, universal binder, sawdust). Keep in suitable, closed containers for

### 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 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 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 exhaust 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, in	ncl	uding any incompatibilities

Requirements for storage	: Keep container tightly closed in a dry and well-ventilated
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areas and containers	place. Containers which are opened mus sealed and kept upright to prevent leaka ance with local regulations.	
Further information on stor- age stability	: No decomposition if stored and applied a	as directed.
7.3 Specific end use(s) Specific use(s)	: Cleaning with aprotic polar solvents mus Consult most current local Product Data use.	

## **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 *	
4,4'-Methylenediphenyl diisocyanate, oligomers	Not Assigned	TWA	0,02 mg/m3 (NCO)	GB EH40	
	of exposure)         ters *           Not Assigned         TWA         0,02 mg/m3         GB EH40				



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	pational asthm assigned only f asthma in the o bered that othe pational asthm	and level of surveilla a., The 'Sen' notation to those substances categories shown in er substances not in a. HSE's asthma w uk/asthma) provide	on in the list of WE s which may cause I Table 1. It should these tables may eb pages	ELs has been e occupational l be remem- r cause occu-
		STEL	0,07 mg/m3 (NCO)	GB EH40

\*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 Hand protection	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water Chemical-resistant, impervious gloves complying with an a proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow man 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 2034 long-sleeved working clothing, long trousers). Rubber aprov and protective boots are additionally recommended for mixin and stirring work.	ns
Respiratory protection	In case of inadequate ventilation wear respiratory protection Respirator selection must be based on known or anticipate exposure levels, the hazards of the product and the safe we ing limits of the selected respirator. Use a properly fitted NIOSH approved air-purifying or air-fe 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 pa- ticular to the mixing / stirring area. In case this is not suffice to keep the concentrations under the occupational exposur- limits then respiration protection measures must be used.	d ork- ed - h- ar- ent



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		Ensure adequate ventilation, especially	in confined areas.
Environmental exposure con	itro	ls	
General advice	:	Do not flush into surface water or sanita If the product contaminates rivers and la respective authorities.	
SECTION 9: Physical and cher	nic	al properties	
0.1 Information on basic physical	an	d chemical properties	
Physical state	:	liquid	
Colour	:	yellow	
Odour	:	characteristic	
Melting point/range / Freezing point	:	No data available	
Boiling point/boiling range	:	208 °C	
Flammability (solid, gas)	:	No data available	
Upper/lower flammability or	exp	losive limits	
Upper explosion limit / Up- per flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Flash point	:	> 200 °C Method: closed cup	
Auto-ignition temperature	:	No data available	
Decomposition temperature	:	No data available	
рН	:	Not applicable substance/mixture reacts with water	
Viscosity			
Viscosity, kinematic	:	No data available	
Solubility(ies)			
Water solubility	:	insoluble	
Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,01 hPa	



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Density	: 1 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

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

Harmful if inhaled.

### Components:

## 4,4'-Methylenediphenyl diisocyanate, oligomers:

Acute oral toxicity	:	LD50 Oral (Rat): > 5.000 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rat): > 9.400 mg/kg

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Skin corrosion/irritation Causes skin irritation.		
Serious eye damage/eye irr Causes serious eye irritation.	tation	
Respiratory or skin sensitis	ation	
<b>Skin sensitisation</b> May cause an allergic skin rea	iction.	
<b>Respiratory sensitisation</b> May cause allergy or asthma	symptoms or breathing difficulties if inhaled.	
Germ cell mutagenicity Not classified based on availa	ble information.	
<b>Carcinogenicity</b> Suspected of causing cancer.		
<b>Reproductive toxicity</b> Not classified based on availa	ble information.	
<b>STOT - single exposure</b> May cause respiratory irritatio	٦.	
<b>STOT - repeated exposure</b> May cause damage to organs	through prolonged or repeated exposure if inhal	led.
Aspiration toxicity Not classified based on availa		
1.2 Information on other hazard	S	
Endocrine disrupting prope	rties	
<u>Product:</u> Assessment	: The substance/mixture does not contain con- ered to have endocrine disrupting properties REACH Article 57(f) or Commission Delega (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	s according to ated regulation

# **SECTION 12: Ecological information**

# 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available



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<b>12.3 Bioaccumulative potential</b> No data available		
<b>12.4 Mobility in soil</b> No data available		
12.5 Results of PBT and vPvB asse	essment	
Product:		
Assessment :	This substance/mixture contains no compo to be either persistent, bioaccumulative and very persistent and very bioaccumulative (v 0.1% or higher	d toxic (PBT), or
12.6 Endocrine disrupting properti	es	
Product:		
Assessment :	The substance/mixture does not contain co ered to have endocrine disrupting propertie REACH Article 57(f) or Commission Delega (EU) 2017/2100 or Commission Regulation levels of 0.1% or higher.	s according to ated regulation
12.7 Other adverse effects		
Product:		

#### **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.



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## **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
	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** Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Banned and/or restricted
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained	:	Not applicable



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Regulation (EU) 2019/1021 as ai ain)	Regulation (EU) 2019/1021 as amended for Great Brit- ain)					
International Chemical Weapons Schedules of Toxic Chemicals ar						
Regulation (EC) No 1005/2009 o plete the ozone layer	n substances that de- : Not applicable					
UK REACH List of substances su (Annex XIV)	ubject to authorisation : Not applicable					
	GB Export and import of hazardous chemicals - Prior : Not applicable Informed Consent (PIC) Regulation					
Control of Major Accident Hazard 2015 (COMAH)	Control of Major Accident Hazards Regulations Not applicable					
Volatile organic compounds :	Law on the incentive tax for volatile organic co (VOCV) no VOC duties	mpounds				
	Directive 2010/75/EU of 24 November 2010 or emissions (integrated pollution prevention and 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:	Environmental Protection Act 1990 & Subsidia Health and Safety at Work Act 1974 & Subsidi Control of Substances Hazardous to Health Re (COSHH) May be subject to the Control of Major Accider Regulations (COMAH), and amendments.	ary Regulations egulations				

## 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	
LI215	C

H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H334	<ul> <li>May cause allergy or asthma symptoms or breathing difficul- ties if inhaled.</li> </ul>
H335	: May cause respiratory irritation.

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H351 H373	Suspected of causing cancer. May cause damage to organs through prolonge exposure if inhaled.	ed or repeated	
Full text of other abbreviation	S		
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 exposu	Ire	
STOT SE	Specific target organ toxicity - single exposure		
GB EH40	UK. EH40 WEL - Workplace Exposure Limits		
GB EH40 / TWA	Long-term exposure limit (8-hour TWA reference		
GB EH40 / STEL	Short-term exposure limit (15-minute reference		
ADR	European Agreement concerning the Internation Dangerous Goods by Road	onal Carriage of	
CAS	Chemical Abstracts Service		
DNEL	Derived no-effect level		
EC50	Half maximal effective concentration		
GHS	Globally Harmonized System		
IATA			
IMDG	International Maritime Code for Dangerous God	ods	
LD50	Median lethal dosis (the amount of a material, given all at		
	once, which causes the death of 50% (one half test animals)	) of a group of	
LC50	Median lethal concentration (concentrations of	the chemical in	
	air that kills 50% of the test animals during the period)	observation	
MARPOL	International Convention for the Prevention of F	Pollution from	
	Ships, 1973 as modified by the Protocol of 197		
OEL	Occupational Exposure Limit		
PBT	Persistent, bioaccumulative and toxic		
PNEC	Predicted no effect concentration		
REACH	Regulation (EC) No 1907/2006 of the Europear		
	and of the Council of 18 December 2006 conce		
	istration, Evaluation, Authorisation and Restrict		
	cals (REACH), establishing a European Chemi	cals Agency	
SVHC	Substances of Very High Concern		
vPvB	Very persistent and very bioaccumulative		

## **Further information**

Classification of the mixture:		Classification procedure:
Acute Tox. 4	H332	Calculation method
Skin Irrit. 2	H315	Calculation method
Eye Irrit. 2	H319	Calculation method
Resp. Sens. 1	H334	Calculation method



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Skin Sens. 1	H317	Calculation method	
Carc. 2	H351	Calculation method	
STOT SE 3	H335	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 !

GB / EN