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

1.1 Product identifier

Trade name : SikaBiresin[®] CH135-8 (Biresin CH135-8) (B)

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

Product use : Composites 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		-

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	H302: Harmful if swallowed.
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Long-term (chronic) aquatic hazard, Cat-	H411: Toxic to aquatic life with long lasting effects.
egory 2	

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	EZ	
Signal word	:	Danger	★ ★
Hazard statements	:	H302 H314 H411	Harmful if swallowed. Causes severe skin burns and eye damage. Toxic to aquatic life with long lasting effects.



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Precautionary statements :	Prevention:P273Avoid release to the endP280Wear protective gloveseye protection/ face protection/ face protection/	s/ protective clothing/
	Response: P303 + P361 + P353 IF ON SKIN (or h ately all contaminated with water. P304 + P340 + P310 IF INHALED: Re air and keep comfortab mediately call a POISC	clothing. Rinse skin move person to fresh ble for breathing. Im- DN CENTER/ doctor.
	P305 + P351 + P338 + P310IF IN EYwith water for several rtact lenses, if present atinue rinsing. ImmediatCENTER/ doctor.P391Collect spillage.	minutes. Remove con- and easy to do. Con-

Hazardous components which must be listed on the label:

Reaction product of 2,4-Dinitrotoluene and 2,6-Dinitrotoluene and hydrogen

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

CAS-No.	Classification	Concentration
EC-No. Registration number		(% w/w)
Not Assigned 939-489-9 01-2119977080-39- XXXX	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute toxicity esti- mate	>=80
	Acute oral toxicity: 1.276 mg/kg	
Not Assigned 941-876-2 01-2120083278-48- XXXX	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1 Acute toxicity esti- mate Acute oral toxicity:	>= 20 - < 25
	EC-No. Registration number Not Assigned 939-489-9 01-2119977080-39- XXXX Not Assigned 941-876-2 01-2120083278-48-	EC-No. Registration numberNot Assigned 939-489-9 01-2119977080-39- XXXXAcute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318Acute toxicity estimateAcute toxicity estimateNot Assigned 941-876-2 01-2120083278-48- XXXXAcute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410Mot Assigned 941-876-2 01-2120083278-48- XXXAcute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 11M-Factor (Chronic aquatic toxicity): 1Acute toxicity estimate

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.



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In case of skin contact	Wash Imme	off contaminated clothing and sh off with soap and plenty of wate diate medical treatment is neces ds from corrosion of the skin hea	r. sary as untreated
In case of eye contact	sue d In the of wa Conti Remo	amounts splashed into eyes car amage and blindness. case of contact with eyes, rinse ter and seek medical advice. nue rinsing eyes during transport ove contact lenses. eye wide open while rinsing.	immediately with plenty
If swallowed	Rinse Do no	ot induce vomiting without medica mouth with water. ot give milk or alcoholic beverage r give anything by mouth to an ur	·S.
4.2 Most important symptoms a	d effects	, both acute and delayed	
Symptoms	Derm See S	ointestinal discomfort atitis Section 11 for more detailed infor ymptoms.	mation on health effects
Risks		h injuries may be delayed. sive effects	
	Caus	ful if swallowed. es serious eye damage. es severe burns.	
4.3 Indication of any immediate Treatment		ttention and special treatment symptomatically.	needed
SECTION 5: Firefighting mea	ures		
5.1 Extinguishing media			
Suitable extinguishing media		se of fire, use water/water spray/v and/foam/alcohol resistant foam/o ction.	
5.2 Special hazards arising from	the subs	tance or mixture	
Specific hazards during fire- fighting	: Do no cours	ot allow run-off from fire fighting to es.	o enter drains or water
Hazardous combustion prod-	: No ha	azardous combustion products ar	e known
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ucts		

5.3 Advice for firefighters

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

	e equipment and emergency procedures 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. If the product contaminates rivers and lakes or drains inform respective authorities.			
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). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.



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Hygiene measures	:	Handle in accordance with good industrial hygies practice. When using do not eat or drink. When us smoke. Wash hands before breaks and at the er	using do not
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-ve place. Containers which are opened must be can sealed and kept upright to prevent leakage. Stor ance with local regulations.	refully re-
Further information on stor- age stability	:	No decomposition if stored and applied as direct	ed.
7.3 Specific end use(s) Specific use(s)	:	Consult most current local Product Data Sheet p use.	rior to any

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type (Form	Control parame-	Basis *
		of exposure)	ters *	

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

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

Personal protective equipm	nent
Eye/face protection	 Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water Wear eye/face protection.
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. No special measures required.
Respiratory protection Country GB 100000005718	6/15
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Environmental exposure controls

General advice

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state Colour Odour		liquid (20 °C) light yellow amine-like
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 Upper explosion limit / Up- per flammability limit	•	
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	ca. 87 °C Method: closed cup
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	ca. 12 (20 °C) Concentration: 50 % Not applicable substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	ca. 10 mPa.s (25 °C)
Viscosity, kinematic	:	< 7 mm2/s (40 °C)
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	not determined



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Partition coefficient: n- octanol/water	:	No data available	
Vapour pressure	:	0,016 hPa	
Density	:	ca. 0,94 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					
e under recommended storage conditions.					

10.4 Conditions to avoid

lo 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 swallowed.

Components:

Reaction product of 2,4-Dinitrotoluene and 2,6-Dinitrotoluene and hydrogen:

Acute oral toxicity : LD50 Oral (Rat): ca. 1.276 mg/kg

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REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.



SikaBiresin® CH135-8 (Biresin CH135-8) (B)

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	Acute toxicity estimate: 1.276 mg/kg Method: Calculation method	
	clohexanedimethanol, propylene oxide and	ammonia:
Acute oral toxicity	: LD50 Oral (Rat): 550 mg/kg	
Skin corrosion/irritation Causes severe burns.		
Serious eye damage/eye irr Causes serious eye damage.		
Respiratory or skin sensitis	ation	
Skin sensitisation Not classified based on availa	able information.	
Respiratory sensitisation Not classified based on availa	able information.	
Germ cell mutagenicity Not classified based on availa	able information.	
Carcinogenicity Not classified based on availa	able information.	
Reproductive toxicity Not classified based on availa	able information.	
STOT - single exposure Not classified based on availa	able information.	
STOT - repeated exposure Not classified based on availa	able information.	
Aspiration toxicity Not classified based on availa	able information.	
11.2 Information on other hazard	ds	
Endocrine disrupting prope	erties	
Product: Assessment	: The substance/mixture does not contain contain contain to have endocrine disrupting propertion	es according to

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SECTION 12: Ecological information

12.1 Toxicity

Components:

	Reaction products of 1,4-cy Toxicity to fish	clo :	hexanedimethanol, propylene oxide and ammonia: LC50 (Oncorhynchus mykiss (rainbow trout)): 75 mg/l Exposure time: 96 h	
	Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 7,5 mg/l Exposure time: 48 h	
	Toxicity to algae/aquatic plants	:	NOEC (green algae): 0,032 mg/l Exposure time: 48 h	
	M-Factor (Acute aquatic tox- icity)	:	10	
	M-Factor (Chronic aquatic toxicity)	:	1	
12.2	Persistence and degradabili No data available	ity		
12.3	Bioaccumulative potential No data available			
12.4	Mobility in soil No data available			
12.5	Results of PBT and vPvB as	se	ssment	
	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



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Additional ecological infor- mation	: An environmental hazard cannot be excluded in unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.	the event of

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	:	UN 2735	
IMDG	:	UN 2735	
ΙΑΤΑ	:	UN 2735	
14.2 UN proper shipping name			
ADR	:		ORROSIVE, N.O.S. 2,4-Dinitrotoluene and 2,6-Dinitrotoluene e-terminated cycloaliphatic propoxylate)
IMDG	:	· ·	ORROSIVE, N.O.S. 2,4-Dinitrotoluene and 2,6-Dinitrotoluene e-terminated cycloaliphatic propoxylate)
ΙΑΤΑ	:	Amines, liquid, corrosive, n.o.s. (Reaction product of 2,4-Dinitrotoluene and 2,6-Dinitrotoluene and hydrogen, Amine-terminated cycloaliphatic propoxylate)	
14.3 Transport hazard class(es)			
		Class	Subsidiary risks
ADR	:	8	
IMDG	:	8	



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ΙΑΤΑ	:	8		
14.4 Packing group				
ADR Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	II C7 80 8 (E)		
IMDG Packing group Labels EmS Code	:	II 8 F-A, S-B		
IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels	:	855 Y840 II Corrosive		
IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels	:	851 Y840 II Corrosive		
14.5 Environmental hazards				
ADR Environmentally hazardous IMDG	:	yes		
Marine pollutant IATA (Passenger) Environmentally hazardous	:	yes yes		
IATA (Cargo) Environmentally hazardous	:	yes		

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.



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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

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UK REACH List of restrictions (An	:	Not applicable			
UK REACH Candidate list of subs concern (SVHC) for Authorisation	:	Not applicable			
The Persistent Organic Pollutants Regulation (EU) 2019/1021 as am ain)	:	Not applicable			
International Chemical Weapons (Schedules of Toxic Chemicals and	:	Not applicable			
Regulation (EC) No 1005/2009 on plete the ozone layer	:	Not applicable			
UK REACH List of substances sub (Annex XIV)	JK REACH List of substances subject to authorisation Annex XIV)				
GB Export and import of hazardou Informed Consent (PIC) Regulatio	:	Not applicable			
Control of Major Accident Hazards Regulations E2 ENVIRONMENTAL HAZARDS					
2015 (COMAH) Volatile organic compounds :	Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties				
	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable				

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

: Environmental Protection Act 1990 & Subsidiary Regulations Health and Safety at Work Act 1974 & Subsidiary Regulations Control of Substances Hazardous to Health Regulations (COSHH) May be subject to the Control of Major Accident Hazards
Regulations (COMAH), and amendments.

15.2 Chemical safety assessment

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



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SECTION 16: Other information

Full text of H-Statements		
H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
Full text of other abbreviation	ons	
Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion
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 r	nixture:	Classification procedure:
Acute Tox. 4	H302	Calculation method
Skin Corr. 1	H314	Based on product data or assessment



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Eye Dam. 1	H318	Based on pro	oduct data or assessment
Aquatic Chronic 2	H411	Calculation n	nethod

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