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

#### 1.1 Product identifier

Trade name : SikaFix® AC-21

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

Product use : Special system, Additive, 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	:	+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, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:	EZ	
Signal word	:	Danger	•
Hazard statements	:	H302 H314 H317	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction.



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Precautionary statements :	Prevention:P261Avoid breathing mist orP280Wear protective gloves/ eye protection/ face protection/	/ protective clothing/
	Response: P301 + P330 + P331 IF SWALLOWED NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or h ately all contaminated of with water.	air): Take off immedi-
	P304 + P340 + P310 IF INHALED: Ren air and keep comfortab mediately call a POISO P305 + P351 + P338 + P310 IF IN EYR with water for several m tact lenses, if present a tinue rinsing. Immediate CENTER/ doctor.	le for breathing. Im- N CENTER/ doctor. ES: Rinse cautiously ninutes. Remove con- nd easy to do. Con-

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

2,2' -oxybisethanol 2-[2-(dimethylamino)ethoxy]ethanol N-[2-[2-(dimethylamino) ethoxy] ethyl]-N-methyl-1,3-propandiamine

## 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

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
2,2' -oxybisethanol	111-46-6	Acute Tox. 4; H302	>= 25 - < 40
	203-872-2		
	01-2119457857-21-		
	XXXX		
2-[2-	1704-62-7	Acute Tox. 4; H312	>= 5 - < 10
(dimethylamino)ethoxy]ethanol	216-940-1	Skin Corr. 1B; H314	
	01-2119976346-26-	Eye Dam. 1; H318	
	XXXX	<b>3</b>	
1,4-diazabicyclooctane	280-57-9	Flam. Sol. 1; H228	>= 1 - < 2,5
, <b>,</b>	205-999-9	Acute Tox. 4; H302	,
	01-2119980944-22-	Skin Irrit. 2; H315	
	XXXX	Eye Dam. 1; H318	
		Acute toxicity esti-	
		mate	
		Acute oral toxicity:	
		700 mg/kg	
N-[2-[2-(dimethylamino) ethoxy]	189253-72-3	Acute Tox. 4; H302	>= 1 - < 2,5
ethyl]-N-methyl-1,3-	470-720-1	Skin Corr. 1B; H314	
propandiamine	470-720-1	Eye Dam. 1; H318	
	01-0000019735-62-		
	XXXX	,	
	470-720-1 470-720-1 01-0000019735-62-	Skin Corr. 1B; H314	2-1-52,5

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. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficul- ty.



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In case of eye contact	: Small amounts splashed into eyes can cause sue damage and blindness.	e irreversible tis-
	In the case of contact with eyes, rinse immed of water and seek medical advice.	liately with plenty
	Continue rinsing eyes during transport to hos	pital.
	Remove contact lenses. Keep eye wide open while rinsing.	
If swallowed		
II Swallowed	: Do not induce vomiting without medical advic Rinse mouth with water.	<i>.</i> с.
	Do not give milk or alcoholic beverages.	
	Never give anything by mouth to an unconsci	ious person.
.2 Most important symptoms and	d effects, both acute and delayed	
Symptoms	: Gastrointestinal discomfort	
	Allergic reactions	
	Dermatitis See Section 11 for more detailed information	on health effects
	and symptoms.	
Risks	: Health injuries may be delayed.	
	corrosive effects	
	sensitising effects	
	Harmful if swallowed.	
	May cause an allergic skin reaction. Causes serious eye damage.	
	Causes severe burns.	
1.3 Indication of any immediate m	nedical attention and special treatment neede	d
	-	
Treatment	: Treat symptomatically.	
Treatment		
Treatment SECTION 5: Firefighting measure		
Treatment	ures	et/carbon diox-
Treatment SECTION 5: Firefighting measu 5.1 Extinguishing media	ures	
Treatment SECTION 5: Firefighting measu 5.1 Extinguishing media	ures : In case of fire, use water/water spray/water je ide/sand/foam/alcohol resistant foam/chemica extinction.	
Treatment SECTION 5: Firefighting measu 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from t	ures : In case of fire, use water/water spray/water je ide/sand/foam/alcohol resistant foam/chemica extinction.	al powder for
Treatment SECTION 5: Firefighting measure 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from the Hazardous combustion prod- ucts	ures : In case of fire, use water/water spray/water je ide/sand/foam/alcohol resistant foam/chemica extinction. the substance or mixture	al powder for
Treatment SECTION 5: Firefighting measure 5.1 Extinguishing media Suitable extinguishing media 5.2 Special hazards arising from the Hazardous combustion prod- ucts 5.3 Advice for firefighters	ures : In case of fire, use water/water spray/water je ide/sand/foam/alcohol resistant foam/chemica extinction. the substance or mixture	al powder for /n

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for firefighters		
Further information :	Standard procedure for chemical fires.	
SECTION 6: Accidental release	measures	
6.1 Personal precautions, protectiv	ve 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 sev If the product contaminates rivers and lakes o respective authorities.	
6.3 Methods and material for conta	inment and cleaning up	
Methods for cleaning up :	Soak up with inert absorbent material (e.g. sa acid binder, universal binder, sawdust). Keep in suitable, closed containers for dispos	
6.4 Potoronco to other sections		

### 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	:	<ul> <li>Avoid exceeding the given occupational exposure limits (see section 8).</li> <li>Do not get in eyes, on skin, or on clothing.</li> <li>For personal protection see section 8.</li> <li>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.</li> <li>Smoking, eating and drinking should be prohibited in the application area.</li> <li>Follow standard hygiene measures when handling chemical products</li> </ul>
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.



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7.2 Conditions for safe storage,	inc	luding any incompatibilities	
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and place. Containers which are opened must sealed and kept upright to prevent leakage ance with local regulations.	be carefully re-
Further information on stor- age stability	:	No decomposition if stored and applied as	directed.
7.3 Specific end use(s) Specific use(s)	:	Consult most current local Product Data S use.	heet prior to any

## **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 *		
2,2' -oxybisethanol	111-46-6	TWA	23 ppm	GB EH40
			101 mg/m3	
		ation: Where no spe three times the long		

\*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 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,	



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Respiratory protection :	long-sleeved working clothing, long trousers). I and protective boots are additionaly recommer and stirring work. In case of inadequate ventilation wear respirate Respirator selection must be based on known exposure levels, the hazards of the product an ing limits of the selected respirator. organic vapor filter (Type A) A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 Ensure adequate ventilation. This can be achie exhaust extraction or by general ventilation. (E ods for determining inhalation exposure). This ticular to the mixing / stirring area. In case this to keep the concentrations under the occupation limits then respiration protection measures mu	nded for mixing ory protection. or anticipated d the safe work- ) ppm eved by local N 689 - Meth- applies in par- is not sufficent onal exposure			
Environmental exposure controls					
General advice :	Do not flush into surface water or sanitary sew If the product contaminates rivers and lakes or respective authorities.	-			

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state Colour Odour	:	
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flammability (solid, gas)	:	No data available
<b>Upper/lower flammability or e</b> Upper explosion limit / Up- per flammability limit	-	
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	> 101 °C Method: closed cup
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available



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рН	: Not a	applicable	
<b>Viscosity</b> Viscosity, kinematic	: > 20,	5 mm2/s (40 °C)	
<b>Solubility(ies)</b> Water solubility	: insolu	uble	
Partition coefficient: n- octanol/water	: No da	ata available	
Vapour pressure	: No da	ata available	
Density	: ca. 1,	,07 g/cm3 (20 °C)	
Relative vapour density	: No da	ata available	
Particle characteristics	: No da	ata 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 : Stable under recommended storage conditions.

#### 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.



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## **SECTION 11: Toxicological information**

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

	Acute toxicity	
	Harmful if swallowed.	
	<u>Components:</u>	
	1,4-diazabicyclooctane:	
	Acute oral toxicity : L	.D50 Oral (Rat): 700 mg/kg
		Acute toxicity estimate: 700 mg/kg /lethod: Calculation method
	Skin corrosion/irritation	
	Causes severe burns.	
	Serious eye damage/eye irritation Causes serious eye damage.	1
	Respiratory or skin sensitisation	
	<b>Skin sensitisation</b> May cause an allergic skin reaction.	
	<b>Respiratory sensitisation</b> Not classified based on available in	formation.
	Germ cell mutagenicity Not classified based on available in	formation.
	<b>Carcinogenicity</b> Not classified based on available in	formation.
	<b>Reproductive toxicity</b> Not classified based on available in	formation.
	<b>STOT - single exposure</b> Not classified based on available in	formation.
	<b>STOT - repeated exposure</b> Not classified based on available in:	formation.
	Aspiration toxicity Not classified based on available in:	formation.
11.2	2 Information on other hazards	
	Endocrine disrupting properties	
	Product: Assessment : T	he substance/mixture does not contain components consid-



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	ered to have endocrine disrupting prope REACH Article 57(f) or Commission Del (EU) 2017/2100 or Commission Regulat levels of 0.1% or higher.	egated regulation
SECTION 12: Ecological infor	mation	
12.1 Toxicity		
Components:		
	<ul> <li>bxy] ethyl]-N-methyl-1,3-propandiamine:</li> <li>EC50 (Daphnia (water flea)): &gt; 100 mg/l Exposure time: 48 h</li> </ul>	I
<b>12.2 Persistence and degradabil</b> No data available	ity	
<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 as	sessment	
<u>Product:</u> Assessment	: This substance/mixture contains no com to be either persistent, bioaccumulative very persistent and very bioaccumulative 0.1% or higher	and toxic (PBT), or
12.6 Endocrine disrupting prope	rties	
<u>Product:</u> Assessment	: The substance/mixture does not contain ered to have endocrine disrupting prope REACH Article 57(f) or Commission Del (EU) 2017/2100 or Commission Regulat levels of 0.1% or higher.	rties according to egated regulation
12.7 Other adverse effects		
Product: Additional ecological infor- mation	: There is no data available for this produ	ct.

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### **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 01 11\* waste paint and varnish containing organic solvents or other dangerous substances Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

## **SECTION 14: Transport information**

### 14.1 UN number

:	UN 2735
:	UN 2735
:	UN 2735
:	AMINES, LIQUID, CORROSIVE, N.O.S. (2-[2-(dimethylamino)ethoxy]ethanol)
:	AMINES, LIQUID, CORROSIVE, N.O.S. (2-[2-(dimethylamino)ethoxy]ethanol)
:	Amines, liquid, corrosive, n.o.s. (2-[2-(dimethylamino)ethoxy]ethanol)
:	8
:	8
:	8
	· · · · · · · · · · · · · · · · · · ·



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## ADR

	Packing group Classification Code Hazard Identification Number Labels Tunnel restriction code	:	III C7 80 8 (E)
	IMDG Packing group Labels EmS Code	: : :	III 8 F-A, S-B
	IATA (Cargo) Packing instruction (cargo aircraft) Packing instruction (LQ) Packing group Labels		856 Y841 III Corrosive
	IATA (Passenger) Packing instruction (passen- ger aircraft) Packing instruction (LQ) Packing group Labels		852 Y841 III Corrosive
14.5	Environmental hazards		

## ADR

Environmentally hazardous	:	no
IMDG Marine pollutant	:	no
IATA (Passenger) Environmentally hazardous	:	no
IATA (Cargo) Environmentally hazardous	:	no

### 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 Transport in bulk according to Annex II of Marpol and the IBC Code

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



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UK REACH List of restrictions (Ar	inex 17)	:	Conditions of restriction for the fol- lowing entries should be considered:
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 or plete the ozone layer	n substances that de-	:	Not applicable
UK REACH List of substances su (Annex XIV)	bject to authorisation	:	Not applicable
GB Export and import of hazardou Informed Consent (PIC) Regulatic		:	Not applicable
Control of Major Accident Hazards 2015 (COMAH)	s Regulations		applicable
Volatile organic compounds :	(VOCV)		or volatile organic compounds ds (VOC) content: < 0% w/w
	emissions (integrated	pollu	4 November 2010 on industrial ution prevention and control) Is (VOC) content: 35,8% w/w

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

### 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					
H228	:	Flammable solid.			
H302		Harmful if swallowed.			
H312		Harmful in contact with skin.			
H314	:	Causes severe skin burns and eye damage.			
H315	:	Causes severe skin burns and eye damage.			
H317	:	May cause an allergic skin reaction.			
	÷				
H318	•	Causes serious eye damage.			
Full text of other abbreviations					
Acute Tox.	:	Acute toxicity			
Eye Dam.	:	Serious eye damage			
Flam. Sol.	:	Flammable solids			
Skin Corr.	:	Skin corrosion			
Skin Irrit.	:	Skin irritation			
Skin Sens.	:	Skin sensitisation			
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits			
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)			
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			
IATA	÷	International Air Transport Association			
IMDG		International Maritime Code for Dangerous Goods			
LD50		Median lethal dosis (the amount of a material, given all at			
2000	•	once, which causes the death of 50% (one half) of a group of			
		test animals)			
LC50		Median lethal concentration (concentrations of the chemical in			
2000	•	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			
REACH	·	and of the Council of 18 December 2006 concerning the Reg-			
		0 0			
		istration, Evaluation, Authorisation and Restriction of Chemi-			
0////0		cals (REACH), establishing a European Chemicals Agency			
SVHC	÷	Substances of Very High Concern			
vPvB	:	Very persistent and very bioaccumulative			
Further information					
Classification of the mixture:		Classification procedure:			
		Calculation method			
Acute Tox. 4	ПJ				



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Skin Corr. 1B	H314	Calculation method	
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	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