

Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

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

#### **1.1 Product identifier**

Trade name

SikaForce<sup>®</sup>-436 (ADEKIT A 236) Part B

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

Product use : Adhesive

#### 1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Nederland B.V. Zonnebaan 56
		3542 EG Utrecht
		Nederland
Telephone	:	+31-30-2410120
Telefax	:	+31-30-2414482
E-mail address of person	:	EHS@nl.sika.com
responsible for the SDS		

#### **1.4 Emergency telephone number**

+31-57-0854201

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or 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- 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.

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regula-

tion (EU) 2020/878

2.2 Label elements

Signal word

## SikaForce<sup>®</sup>-436 (ADEKIT A 236) Part B

Revision Date: 03.12.2024 Date of last issue: 02.12.2024

Hazard pictograms

Hazard statements

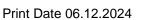
Precautionary statements

Version 1.2

Causes skin irritation.

ing difficulties if inhaled.

Harmful if inhaled.



#### **Prevention:** P201 Obtain special instructions before use. P260 Do not breathe mist or vapours. Wash skin thoroughly after handling. P264 Wear protective gloves/ protective clothing/ P280 eve protection/ face protection. **Response:**

May cause an allergic skin reaction.

May cause allergy or asthma symptoms or breath-

May cause damage to organs through prolonged

Causes serious eye irritation.

May cause respiratory irritation.

or repeated exposure if inhaled.

Suspected of causing cancer.

#### P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. If experiencing respiratory symptoms: Call a P342 + P311 POISON CENTER/ doctor.

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

Diphenylmethanediisocyanate, isomeres and homologues

"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.





Danger

H315 H317

H319

H332

H334

H335

H351

H373

1



Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

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

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9 Not Assigned	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 specific concentration limit Eye Irrit. 2; H319 >= 5 %	>= 25 - < 40
		limit Resp. Sens. 1; H334 >= 0,1 % specific concentration limit Skin Irrit. 2; H315 >= 5 % specific concentration limit STOT SE 3; H335 >= 5 %	

For explanation of abbreviations see section 16.



Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

## **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 Dermatitis See Section 11 for more detailed information on health effects and symptoms.			
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 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.			

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Revision Date: 03.12.2024 Date of last issue: 02.12.2024	Version 1.2	Print Date 06.12.2024			
4.3 Indication of any immediate medical attention and special treatment needed					
Treatment :	Treat symptomatically.				
SECTION 5: Firefighting measured	res				
5.1 Extinguishing media					
Suitable extinguishing media :	In case of fire, use water/water spray/water jet/c ide/sand/foam/alcohol resistant foam/chemical p extinction.				
5.2 Special hazards arising from th	e 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 breathin	g apparatus.			
Further information :	Standard procedure for chemical fires.				
SECTION 6: Accidental release	measures				
6.1 Personal precautions, protectiv	e 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 sewe If the product contaminates rivers and lakes or or 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 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 formation of aerosol.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaForce<sup>®</sup>-436 (ADEKIT A 236) Part B



Revision Date: 03.12.2024 Version 1.2 Print Date 06.12.2024 Date of last issue: 02.12.2024 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 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, including any incompatibilities Requirements for storage Keep container tightly closed in a dry and well-ventilated areas and containers place. Containers which are opened must be carefully resealed 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 of exposure)	Control parame- ters *	Basis *
Diphenylmethanediisocyanate, isomeres	9016-87-9	AGW (Inhalable	0,05 mg/m3	DE TRGS 900
and homologues		fraction)	(MDI)	
	Further information: Senate commission for the review of com- pounds at the work place dangerous for the health has also estab- lished a BEI-value for the same OEL value in the 'MAK- and BAT- value list'			



Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

\*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 equipme	nt	
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) 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 par- ticular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used. Ensure adequate ventilation, especially in confined areas.

#### **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.



Revision Date: 03.12.2024 Date of last issue: 02.12.2024

Version 1.2

Print Date 06.12.2024

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

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

Physical state Appearance Colour	: : :	liquid viscous liquid beige
Odour	:	characteristic
Melting point/ range / Freez- ing point	:	No data available
Boiling point/boiling range	:	190 °C
Flammability (solid, gas)	:	No data available
Upper/lower flammability or o	ovn	locivo limite
Upper explosion limit / Up- per flammability limit	•	
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	:	> 20,5 mm2/s (40 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n- octanol/water	:	No data available

## SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaForce<sup>®</sup>-436 (ADEKIT A 236) Part B



Revision Date: 03.12.2024	Version 1.2	Print Date 06.12.2024
Date of last issue: 02.12.2024		

Vapour pressure	:	0,01 hPa
Density	:	ca. 1,40 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

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 hazardous decomposition products are known.

## **SECTION 11: Toxicological information**

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

#### Acute toxicity

Harmful if inhaled.



vision Date: 03.12.2024 e of last issue: 02.12.2024		Version 1.2	Print Date 06.12.2024
Components:			
Diphenylmethanediisocya	nate.	isomeres and homologues:	
Acute oral toxicity		LD50 Oral (Rat): > 10.000 mg/kg	
Acute inhalation toxicity	:	LC50: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgement Assessment: The component/mixture is m short term inhalation.	oderately toxic after
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 9.400 mg/kg	
Skin corrosion/irritation Causes skin irritation.			
Serious eye damage/eye ir	ritati	on	
Causes serious eye irritation			
Respiratory or skin sensiti	satio	on	
<b>Skin sensitisation</b> May cause an allergic skin re	eacti	on.	
<b>Respiratory sensitisation</b> May cause allergy or asthma	a syn	ptoms or breathing difficulties if inhaled.	
Germ cell mutagenicity Not classified due to lack of	data.		
<b>Carcinogenicity</b> Suspected of causing cance	r.		
Reproductive toxicity Not classified due to lack of	data.		
STOT - single exposure May cause respiratory irritati	on.		
STOT - repeated exposure May cause damage to organ		ough prolonged or repeated exposure if inha	aled.
Aspiration toxicity Not classified due to lack of	data.		
.2 Information on other haza	rds		
Endocrine disrupting prop	ertie	S	
Product:			
Assessment	:	The substance/mixture does not contain c ered to have endocrine disrupting propertion REACH Article 57(f) or Commission Deleg	es according to

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Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

#### Components:

#### Diphenylmethanediisocyanate, isomeres and homologues:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 1.000 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 1.640 mg/l Exposure time: 72 h

### 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 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

### Product:

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



Revision Date: 03.12.2024

Version 1.2

Print Date 06.12.2024

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Date of last issue: 02.12.2024

Product	<ul> <li>The generation of waste should be avoided or minimized wherever possible.</li> <li>Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way.</li> <li>Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.</li> <li>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.</li> <li>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.</li> </ul>
European Waste Catalogue	: 08 05 01* waste isocyanates
Contaminated packaging	<ul> <li>15 01 10* packaging containing residues of or contaminated by dangerous substances</li> </ul>

## **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
Country NIL 000000690752		



Revision Date: 03.12.2024 Date of last issue: 02.12.2024

Version 1.2

Print Date 06.12.2024

## 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 International Chemical Weapons Convention (CWC) : Not applicable Schedules of Toxic Chemicals and Precursors REACH Information: All substances contained in our Products are - registered by our upstream suppliers, and/or - registered by us, and/or - excluded from the regulation, and/or

- exempted from the registration.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Conditions of restriction for the fol- lowing entries should be considered Number on list 3	:
	Number on list 56: Diphenylme- thanediisocyanate, isomeres and homologues	
	Number on list 74: Diphenylme- thanediisocyanate, isomeres and homologues	
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	
Regulation (EC) on substances that deplete the ozone layer	: Not applicable	
	. Natara Kashla	

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaForce<sup>®</sup>-436 (ADEKIT A 236) Part B



Revision Date: 03.12.2024 Version 1.2 Print Date 06.12.2024 Date of last issue: 02.12.2024 tants (recast) Regulation (EU) No 649/2012 of the European Parlia-: Not applicable ment and the Council concerning the export and import of dangerous chemicals 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 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

#### 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 abbreviation	าร	
Acute Tox. Carc.	:	Acute toxicity Carcinogenicity
Eye Irrit.	:	Eye irritation
Resp. Sens. Skin Irrit.	:	Respiratory sensitisation Skin irritation
Skin Sens.	:	Skin sensitisation
STOT RE STOT SE	:	Specific target organ toxicity - repeated exposure Specific target organ toxicity - single exposure
DE TRGS 900	÷	Germany. TRGS 900 - Occupational exposure limit values.
DE TRGS 900 / AGW ADR	:	Time Weighted Average European Agreement concerning the International Carriage of

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaForce<sup>®</sup>-436 (ADEKIT A 236) Part B



Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

	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
	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	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		
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 !

NL / EN

# SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

SikaForce®-436 (ADEKIT A 236) Part B

Revision Date: 03.12.2024 Date of last issue: 02.12.2024 Version 1.2

Print Date 06.12.2024

16/16

