

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

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

#### 1.1 Product identifier

Trade name : Sikaflex®-117 Metal Force

#### 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 Srbija d.o.o.  
Patrijarha Pavla 1  
22310 Šimanovci  
Srbija  
Telephone : +381 22 21 55 777  
Telefax : +381 22 21 55 780  
E-mail address of person : ehs@rs.sika.com  
responsible for the SDS

#### 1.4 Emergency telephone number

National Toxicology Institute -  
+381 11 360 84 40 (toxicologist on duty - 0- 24h)

### SECTION 2: Hazards identification

Type of product : Mixture

#### 2.1 Classification of the substance or mixture

##### Classification (according to CLP/GHS)

Not a hazardous substance or mixture.

#### 2.2 Label elements

##### Labelling (according to CLP/GHS)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

##### Additional Labelling

EUH208 May produce an allergic reaction.

#### 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.

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

| Chemical name                                                                 | CAS-No.<br>EC-No.<br>Registration number         | Classification<br>(according to<br>CLP/GHS)                                                                                              | Concentration<br>(% w/w) |
|-------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-                           | 77703-56-1<br>416-600-4<br>01-0000016345-72-XXXX | Aquatic Chronic 4;<br>H413                                                                                                               | $\geq 2,5 - < 5$         |
| Titanium dioxide ( $> 10 \mu\text{m}$ )                                       | 13463-67-7<br>236-675-5<br>01-2119489379-17-XXXX |                                                                                                                                          | $< 1$                    |
| bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate                                 | 52829-07-9<br>258-207-9<br>01-2119537297-32-XXXX | Eye Dam. 1; H318<br>Repr. 2; H361f<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 2;<br>H411<br><br>M-Factor (Acute aquatic toxicity): 1 | $\geq 0,025 - < 0,25$    |
| trimethoxyvinylsilane<br>Contains:<br>tetramethyl orthosilicate $\leq 0,2 \%$ | 2768-02-7<br>220-449-8<br>01-2119513215-52-XXXX  | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Skin Sens. 1B;<br>H317                                                                       | $< 1$                    |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : No hazards which require special first aid measures.
- If inhaled : Move to fresh air.
- In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.
- In case of eye contact : Remove contact lenses.

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

Keep eye wide open while rinsing.

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 : See Section 11 for more detailed information on health effects and symptoms.

Risks : No known significant effects or hazards.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

---

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

### 5.2 Special hazards arising from the substance or mixture

Hazardous combustion products : 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, protective equipment and emergency procedures

Personal precautions : For personal protection see section 8.

### 6.2 Environmental precautions

Environmental precautions : No special environmental precautions required.

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
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 : For personal protection see section 8.  
No special handling advice required.  
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.

Advice on common storage : No special restrictions on storage with other products.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Consult most current local Product Data Sheet prior to any use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Occupational exposure limits of decomposition products

| Components | CAS-No.                                                                                            | Value type (Form of exposure) | Control parameters               | Basis      |
|------------|----------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------|------------|
| methanol   | 67-56-1                                                                                            | TWA                           | 200 ppm<br>260 mg/m <sup>3</sup> | 2006/15/EC |
|            | Further information: Indicative, Identifies the possibility of significant uptake through the skin |                               |                                  |            |
|            |                                                                                                    | GVI                           | 200 ppm                          | RS OEL     |

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

|  |                                                                                                                                                                            |           |  |
|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--|
|  |                                                                                                                                                                            | 260 mg/m3 |  |
|  | Further information: This chemical substance can adversely affect the skin., Substance mentioned in indicative exposure limit values in Directive 2006/15/EC (second list) |           |  |

### 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  
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.

Butyl rubber/nitrile rubber gloves (> 0,1 mm)  
Recommended: Butyl rubber/nitrile rubber gloves.

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 : No special measures required.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Appearance : paste  
Colour : various  
Odour : slight

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 explosive limits

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

|                           |   |                                                               |
|---------------------------|---|---------------------------------------------------------------|
| Flash point               | : | ca. 65 °C<br>Method: closed cup                               |
| Auto-ignition temperature | : | No data available                                             |
| Decomposition temperature | : | No data available                                             |
| pH                        | : | Not applicable<br>substance/mixture is non-soluble (in water) |

### Viscosity

|                      |   |                                   |
|----------------------|---|-----------------------------------|
| Viscosity, kinematic | : | > 20,5 mm <sup>2</sup> /s (40 °C) |
|----------------------|---|-----------------------------------|

### Solubility(ies)

|                                        |   |                                    |
|----------------------------------------|---|------------------------------------|
| Water solubility                       | : | insoluble                          |
| Partition coefficient: n-octanol/water | : | No data available                  |
| Vapour pressure                        | : | 0,01 hPa                           |
| Density                                | : | ca. 1,37 g/cm <sup>3</sup> (20 °C) |
| Relative vapour density                | : | 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

|                         |   |          |
|-------------------------|---|----------|
| Hazardous decomposition | : | methanol |
|-------------------------|---|----------|

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

products

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

Not classified based on available information.

##### Components:

##### **Urea,N,N'-(methylenedi-4,1-phenylene)bis[N'-butyl-**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402

##### **trimethoxyvinylsilane:**

Acute oral toxicity : LD50 Oral (Rat): ca. 7.120 mg/kg

Acute inhalation toxicity : LC50: ca. 16,8 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute toxicity estimate: 16,8 mg/l  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : LD50: 3.540 mg/kg

##### **Skin corrosion/irritation**

Not classified based on available information.

##### **Serious eye damage/eye irritation**

Not classified based on available information.

##### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

##### **Germ cell mutagenicity**

Not classified based on available information.

##### **Carcinogenicity**

Not classified based on available information.

##### **Reproductive toxicity**

Not classified based on available information.

##### **STOT - single exposure**

Not classified based on available information.

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **Urea,N,N''-(methylenedi-4,1-phenylene)bis[N'-butyl-:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 250 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 (Raphidocelis subcapitata (freshwater green alga)): > 100 mg/l  
Exposure time: 72 h

#### **bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate:**

M-Factor (Short-term (acute) : 1  
aquatic hazard)

### 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 Other adverse effects

#### Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

Additional ecological information : (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.  
: There is no data available for this product.

### 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 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

### 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  
IATA : 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  
IATA : 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  
IATA : Not regulated as a dangerous good

#### 14.4 Packing group

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

**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

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.

Rule book on Bans and Restrictions of Production, Placing on the Market and Use of Chemicals (State Gazette, Nr. 90/2013, 25/2015, 2/2016, 44/2017, 36/2018, 9/2020 and 57/2022) (Annex 1) : Not applicable

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) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

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

### Other regulations:

Rulebook on the content of a safety data sheet (Official Gazette No. 100/11)

Rulebook on classification, packaging, labeling and advertising of chemicals and products in accordance with UN Globally Harmonized System of Classification and Labelling ("Službeni glasnik RS", broj 105/13, 52/2017 i 21/2019).

Law on chemicals ("Off. gazette RS" No. 36/09, 88/10, 92/11, 93/12 and 25/15)

Law on waste management ("Off. Gazette RS" No. 36/09, 88/10, 14/16, 95/18)

Rulebook on categories, testing and classification of waste ("Off. gazette RS" No. 56/10, 93/19 and 39/21)

### 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

|       |                                                           |
|-------|-----------------------------------------------------------|
| H226  | : Flammable liquid and vapour.                            |
| H317  | : May cause an allergic skin reaction.                    |
| H318  | : Causes serious eye damage.                              |
| H332  | : Harmful if inhaled.                                     |
| H361f | : Suspected of damaging fertility.                        |
| H400  | : Very toxic to aquatic life.                             |
| H411  | : Toxic to aquatic life with long lasting effects.        |
| H413  | : May cause long lasting harmful effects to aquatic life. |

### Full text of other abbreviations

|                 |                                      |
|-----------------|--------------------------------------|
| Acute Tox.      | : Acute toxicity                     |
| Aquatic Acute   | : Short-term (acute) aquatic hazard  |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |
| Eye Dam.        | : Serious eye damage                 |
| Flam. Liq.      | : Flammable liquids                  |
| Repr.           | : Reproductive toxicity              |

# SAFETY DATA SHEET

In accordance with the Regulations on the content of the safety data sheet  
("Sl. glasnik RS", br. 100/2011)



## Sikaflex®-117 Metal Force

Revision Date 29.01.2024

Version 3.1

Print Date 16.12.2025

|                  |                                                                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin Sens.       | : Skin sensitisation                                                                                                                                                                                                                   |
| 2006/15/EC       | : Europe. Indicative occupational exposure limit values                                                                                                                                                                                |
| RS OEL           | : Serbia. Occupational Exposure Limits to chemicals at working place (Annex 1)                                                                                                                                                         |
| 2006/15/EC / TWA | : Limit Value - eight hours                                                                                                                                                                                                            |
| RS OEL / GVI     | : occupational exposure limit                                                                                                                                                                                                          |
| 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 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 Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency |
| SVHC             | : Substances of Very High Concern                                                                                                                                                                                                      |
| vPvB             | : Very persistent and very bioaccumulative                                                                                                                                                                                             |

### Further information

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 !

RS / EN