

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

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

#### 1.1 Product identifier

Trade name : SikaTard® Pak

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

Product use : Concrete admixtures

#### 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)

Eye irritation, Category 2 H319: Causes serious eye irritation.  
Specific target organ toxicity - single exposure, Category 3, Respiratory system H335: May cause respiratory irritation.

#### 2.2 Label elements

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

Hazard pictograms : 

Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust.

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

P280 Wear eye protection/ face protection.

### Response:

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

P337 + P313 If eye irritation persists: Get medical advice/ attention.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Disposal:

P501 Dispose of contents/container in accordance with local regulation.

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

citric acid

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name                                   | CAS-No.<br>EC-No.<br>Registration number        | Classification  | Concentration<br>(% w/w) |
|---|---|---|--------------------------|
| tetrasodium (1-hydroxyethylidene)bisphosphonate | 3794-83-0<br>223-267-7<br>01-2119647955-23-XXXX | Eye Irrit. 2; H319  | >= 40 - < 60             |
| citric acid                                     | 77-92-9<br>201-069-1<br>01-2119457026-42-XXXX   | Eye Irrit. 2; H319<br>STOT SE 3; H335<br>(Respiratory system) | >= 25 - < 40             |

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

| Substances with a workplace exposure limit : |  |  |                  |
|--|--|--|------------------|
| calcium carbonate                            | 471-34-1<br>207-439-9<br>01-2119486795-18-XXXX |  | $\geq 2,5 - < 5$ |

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.  
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 : Cough  
Respiratory disorder  
Excessive lachrymation  
See Section 11 for more detailed information on health effects and symptoms.
- Risks : irritant effects  
  
Causes serious eye irritation.  
May cause respiratory irritation.

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

- Treatment : Treat symptomatically.

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

---

### 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 : Use personal protective equipment.  
Avoid breathing dust.  
Deny access to unprotected persons.

#### 6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
No special environmental precautions required.

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

Methods for cleaning up : Pick up and arrange disposal without creating dust.  
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 : Do not breathe vapours/dust.  
Avoid exceeding the given occupational exposure limits (see section 8).  
Do not get in eyes, on skin, or on clothing.

---

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

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 : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

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 areas and containers : Store in original container. Keep in a well-ventilated place. Observe label precautions. Store in accordance with local regulations.

Further information on storage stability : Keep in a dry place.  
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

#### Occupational Exposure Limits

| Components        | CAS-No.   | Value type (Form of exposure) | Control parameters * | Basis * |
|-------------------|---|-------------------------------|----------------------|---------|
| calcium carbonate | 471-34-1  | TWA (inhalable dust)          | 10 mg/m <sup>3</sup> | GB EH40 |
|                   | Further information: For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/4 General methods for sampling and gravimetric analysis or respirable, thoracic and inhalable aerosols., The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m <sup>-3</sup> 8-hour TWA of inhalable dust or 4 mg.m <sup>-3</sup> 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed to dust above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limits., Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system, and the body response that it elicits, depend on the nature and size of the particle. |                               |                      |         |

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

|  |  |  |                     |         |
|--|--|--|---------------------|---------|
|  |  | HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/4., Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with., Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used. |                     |         |
|  |  | TWA (Respirable dust)  | 4 mg/m <sup>3</sup> | GB EH40 |

\*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### general dust value

| Form of exposure    | Value type | Control parameters   | Basis   |
|---------------------|------------|----------------------|---------|
| Inhalable           | TWA        | 10 mg/m <sup>3</sup> | GB EH40 |
| Respirable fraction | TWA        | 4 mg/m <sup>3</sup>  | GB EH40 |

## 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
- 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.
- Recommended: Butyl rubber/nitrile rubber gloves.  
Contaminated gloves should be removed.
- Skin and body protection : Dust impervious protective suit  
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 working limits of the selected respirator.  
particulate filter P  
P1: Inert material; P2, P3: hazardous substances

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficient to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

### Environmental exposure controls

General advice : If the product contaminates rivers and lakes or drains inform respective authorities.  
No special environmental precautions required.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : solid  
Appearance : powder  
Colour : white  
Odour : odourless

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

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

pH : Not applicable

**Viscosity**

Viscosity, kinematic : Not applicable

**Solubility(ies)**

Water solubility : soluble

Partition coefficient: n- : No data available

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

---

octanol/water

Vapour pressure : No data available

Density : 0,9 g/cm<sup>3</sup> (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 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

Not classified based on available information.

#### Components:

##### citric acid:

Acute oral toxicity : LD50 Oral (Rat): 11.700 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

---



# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

---

### **Skin corrosion/irritation**

Not classified based on available information.

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

Causes serious eye irritation.

### **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**

May cause respiratory irritation.

#### **STOT - repeated exposure**

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

## **11.2 Information on other hazards**

### **Endocrine disrupting properties**

#### **Product:**

Assessment : 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 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

citric acid:

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

---

Toxicity to fish : LC50 (Fish): 440 - 760 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l  
Exposure time: 48 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 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.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : 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

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

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 : 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

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.

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

---

### 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

|   |   |   |
|---|---|---|
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors | : | Not applicable  |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer                     | : | Not applicable  |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation       | : | Not applicable  |
| Volatile organic compounds  | : | Law on the incentive tax for volatile organic compounds (VOCV)<br>no VOC duties |

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

|  |   |  |
|--|---|--|
| Health, safety and environmental regulation/legislation specific for the substance or mixture: | : | Environmental Protection Act 1990 & Subsidiary Regulations<br>Health and Safety at Work Act 1974 & Subsidiary Regulations<br>Control of Substances Hazardous to Health Regulations (COSHH)<br>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.

---

### SECTION 16: Other information

#### Full text of H-Statements

|      |   |                                   |
|------|---|-----------------------------------|
| H319 | : | Causes serious eye irritation.    |
| H335 | : | May cause respiratory irritation. |

#### Full text of other abbreviations

|               |   |   |
|---------------|---|---|
| Eye Irrit.    | : | Eye irritation  |
| STOT SE       | : | Specific target organ toxicity - single exposure                                    |
| GB EH40       | : | UK. EH40 WEL - Workplace Exposure Limits  |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference 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  |

# SAFETY DATA SHEET

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



## SikaTard® Pak

Date of last issue: 22.04.2022  
Revision Date: 13.12.2022

Version 6.1

Print Date 13.12.2022

|        |   |  |
|--------|---|--|
| GHS    | : | Globally Harmonized System   |
| IATA   | : | International Air Transport Association  |
| IMDG   | : | International Maritime Code for Dangerous Goods  |
| LD50   | : | Median lethal dose (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

#### Classification of the mixture:

|              |      |
|--------------|------|
| Eye Irrit. 2 | H319 |
| STOT SE 3    | H335 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| 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