

SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  
**SikaTard®-930**



Revision Date 26.09.2016

Version 4.1

Print Date 26.09.2016

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

**1.1 Product identifier**

Trade name : SikaTard®-930

**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 : Sika Limited  
Watchmead  
Welwyn Garden City  
Hertfordshire AL7 1BQ  
United Kingdom

Telephone : +44 (0)1707 394444

**1.4 Emergency telephone number**

Emergency telephone number : +44 (0)1707 363899 (available during office hours)

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**


Type of product : Mixture

**Classification (REGULATION (EC) No 1272/2008)**

Corrosive to metals, Category 1 H290: May be corrosive to metals.

**2.2 Label elements**

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

Hazard pictograms : 

Signal word : Warning

Hazard statements : H290 May be corrosive to metals.

Precautionary statements : **Prevention:**  
P234 Keep only in original container.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**



P390 Absorb spillage to prevent material damage.

### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

| Chemical name<br>CAS-No.<br>EC-No.<br>Registration number                                      | Classification<br>(REGULATION (EC)<br>No 1272/2008) | Concentration<br>[%] |
|--|---|----------------------|
| 2-phosphonobutane-1,2,4-tricarboxylic acid<br>37971-36-1<br>253-733-5<br>01-2119436643-39-XXXX | Met. Corr.1; H290<br>Eye Irrit.2; H319              | >= 10 - < 20         |
| Citric acid monohydrate<br>5949-29-1<br>01-2119457026-42-XXXX                                  | Eye Irrit.2; H319                                   | >= 5 - < 10          |

For the full text of the H-Statements mentioned in this Section, 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.
- 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 : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
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.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### 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.

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### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Deny access to unprotected persons.

#### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.



#### 6.4 Reference to other sections

For personal protection see section 8.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

- Advice on safe handling : Avoid exceeding the given occupational exposure limits (see section 8). For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Follow standard hygiene measures when handling chemical products
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- 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 : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Store in accordance with local regulations.
- Other data : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

- Specific use(s) : No data available
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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

##### Personal protective equipment

- Eye protection : Safety glasses with side-shields  
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
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chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes:  
Butyl rubber/nitrile rubber gloves (0,4 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 : No special measures required.

#### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                               |                     |
|-------------------------------|---------------------|
| Appearance                    | : liquid            |
| Colour                        | : colourless        |
| Odour                         | : odourless         |
| Odour Threshold               | : No data available |
| Flash point                   | : Not applicable    |
| Autoignition temperature      | : No data available |
| Decomposition temperature     | : No data available |
| Lower explosion limit (Vol-%) | : No data available |
| Upper explosion limit (Vol-%) | : No data available |
| Flammability                  | : No data available |
| Explosive properties          | : No data available |
| Oxidizing properties          | : No data available |

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|  |   |  |
|--|---|--|
| pH                                     | : | ca. 3                                  |
| Melting point/range / Freezing point   | : | No data available                      |
| Boiling point/boiling range            | : | No data available                      |
| Vapour pressure                        | : | 24 hPa                                 |
| Density                                | : | ca. 1,11 g/cm <sup>3</sup><br>at 20 °C |
| Water solubility                       | : | soluble                                |
| Partition coefficient: n-octanol/water | : | No data available                      |
| Viscosity, dynamic                     | : | No data available                      |
| Viscosity, kinematic                   | : | not determined                         |
| Relative vapour density                | : | No data available                      |
| Evaporation rate                       | : | No data available                      |

**9.2 Other information**

No data available

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**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**

Hazardous decomposition products : No decomposition if stored and applied as directed.



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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Components:

##### **2-phosphonobutane-1,2,4-tricarboxylic acid:**

Acute oral toxicity : LD50 Oral (Rat): 2.910 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.

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

Not classified based on available information.

#### **Aspiration toxicity**

Not classified based on available information.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **2-phosphonobutane-1,2,4-tricarboxylic acid :**

Toxicity to daphnia and other aquatic invertebrates : EC50: 297 mg/l, 48 h, Daphnia magna (Water flea)

### 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:**

Additional ecological information : There is no data available for this product.

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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 : 16 10 01\* aqueous liquid wastes containing dangerous substances
- Contaminated packaging : 15 01 10\* packaging containing residues of or contaminated by dangerous substances

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## SECTION 14: Transport information

### ADR



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**14.1 UN number** : 3265  
**14.2 Description of the goods** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2-phosphonobutane-1,2,4-tricarboxylic acid)  
**14.3 Class** : 8  
**14.4 Packing group** : III  
Classification Code : C3  
Labels : 8  
Tunnel restriction code : (E)  
**14.5 Environmentally hazardous** : no

**IATA**

**14.1 UN number** : 3265  
**14.2 Description of the goods** : Corrosive liquid, acidic, organic, n.o.s.  
(2-phosphonobutane-1,2,4-tricarboxylic acid)  
**14.3 Class** : 8  
**14.4 Packing group** : III  
Labels : 8  
**14.5 Environmentally hazardous** : no

**IMDG**

**14.1 UN number** : 3265  
**14.2 Description of the goods** : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.  
(2-phosphonobutane-1,2,4-tricarboxylic acid)  
**14.3 Class** : 8  
**14.4 Packing group** : III  
Labels : 8  
EmS Number 1 : F-A  
EmS Number 2 : S-B  
**14.5 Marine pollutant** : no

**14.6 Special precautions for user**

No data available

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

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**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Prohibition/Restriction**

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : 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 : Not applicable



(Annex XIV)

REACH Information: All substances contained in our Products are  
- preregistered or registered by our upstream suppliers, and/or  
- preregistered or registered by us, and/or  
- excluded from the regulation, and/or  
- exempted from the registration.

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

VOC-CH (VOCV) : no VOC duties

VOC-EU (solvent) : < 0,01 %

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: : The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002  
Control of Substances Hazardous to Health Regulations 2002  
The Management of Health and Safety at Work Regulations 1999  
Health and Safety at Work Act 1974  
Environmental Protection Act 1990 & Subsidiary Regulations

## 15.2 Chemical safety assessment

This product contains substances for which Chemical Safety Assessments are still required.

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## SECTION 16: Other information

### Full text of H-Statements

H290 May be corrosive to metals.  
H319 Causes serious eye irritation.

### Full text of other abbreviations

Eye Irrit. Eye irritation  
Met. Corr. Corrosive to metals  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route  
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

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|        |  |
|--------|--|
| 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   |

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 !