

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sikasil® WT-485 Comp. B



Revision Date 24.04.2018

Version 2.0

Print Date 24.04.2018

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

1.1 Product identifier

Trade name : Sikasil® WT-485 Comp. B

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

Product use : Catalyst for 2 Comp. sealants/adhesives.

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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Type of product : Mixture

Classification (REGULATION (EC) No 1272/2008)

| | |
|--|--|
| Flammable liquids, Category 3 | H226: Flammable liquid and vapour. |
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation. |
| Chronic aquatic toxicity, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)




SAFETY DATA SHEET
 according to Regulation (EC) No. 1907/2006
Sikasil® WT-485 Comp. B



Revision Date 24.04.2018

Version 2.0

Print Date 24.04.2018

| | | |
|--------------------------|---|--|
| Hazard pictograms | : |    |
| Signal word | : | Danger |
| Hazard statements | : | H226 Flammable liquid and vapour. H302 Harmful if swallowed. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H412 Harmful to aquatic life with long lasting effects. |
| Precautionary statements | : | Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P264 Wash skin thoroughly after handling. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. |

Hazardous components which must be listed on the label:

- 240-212-2 4,4,7,7-tetraethoxy-3,8-dioxa-4,7-disiladecane
- 225-806-1 N-[3-(triethoxysilyl)propyl]ethylenediamine

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 CAS-No. EC-No. Registration number | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|--|---|----------------------|
| 4,4,7,7-tetraethoxy-3,8-dioxa-4,7-disiladecane 16068-37-4 | Acute Tox.3; H301 Acute Tox.4; H312 | >= 20 - < 25 |

SAFETY DATA SHEET
 according to Regulation (EC) No. 1907/2006
Sikasil® WT-485 Comp. B



Revision Date 24.04.2018

Version 2.0

Print Date 24.04.2018

| | | |
|---|---|--------------|
| 240-212-2 | STOT SE3; H335 Aquatic Chronic3; H412 | |
| N-[3-(triethoxysilyl)propyl]ethylenediamine 5089-72-5 225-806-1 | Skin Irrit.2; H315 Eye Dam.1; H318 Skin Sens.1; H317 Aquatic Chronic3; H412 | >= 5 - < 10 |
| bis(trimethoxysilylpropyl)amine 82985-35-1 280-084-5 01-2119969956-12-XXXX Contains: methanol <= 0,3 % | Eye Dam.1; H318 | >= 5 - < 10 |
| 1,2-Bis(triethoxysilyl)ethene 87061-56-1 | Acute Tox.3; H301 Acute Tox.4; H312 Aquatic Chronic3; H412 | >= 2,5 - < 5 |
| [3-(2,3-epoxypropoxy)propyl]trimethoxysilane 2530-83-8 219-784-2 01-2119513212-58-XXXX Contains: methanol <= 0,2 % | Eye Dam.1; H318 | >= 1 - < 2,5 |

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.
 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 : 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 : Gastrointestinal discomfort
Cough
Respiratory disorder
Allergic reactions
Excessive lachrymation
See Section 11 for more detailed information on health effects and symptoms.

Risks : irritant effects
sensitising effects

Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.

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 : Alcohol-resistant foam, Carbon dioxide (CO₂), Dry chemical

Unsuitable extinguishing media : Water

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 : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.



Remove all sources of ignition.
Deny access to unprotected persons.

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

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).

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 or spray mist. 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. Take precautionary measures against static discharge. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Follow standard hygiene measures when handling chemical products
- Advice on protection against fire and explosion : Use explosion-proof equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against electrostatic discharges.
- 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. 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) : 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 | Control parameters | Basis * |
|------------|---------|-------|--------------------------------------|---------|
| ethanol | 64-17-5 | TWA | 1.000 ppm 1.920 mg/m ³ | 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.

| | | | | |
|----------|---------|------|----------------------------------|---------|
| methanol | 67-56-1 | TWA | 200 ppm 266 mg/m ³ | GB EH40 |
| | | STEL | 250 ppm 333 mg/m ³ | 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.

8.2 Exposure controls

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.

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 : Prevent product from entering drains.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : paste

Colour : dark grey
black

Odour : very faint

Odour Threshold : No data available

Flash point : ca. 45 °C

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

pH : No data available

Melting point/range / Freezing point : No data available

Boiling point/boiling range : No data available

Vapour pressure : 0,01 hPa

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sikasil® WT-485 Comp. B



Revision Date 24.04.2018

Version 2.0

Print Date 24.04.2018

| | | |
|--|---|---------------------------------------|
| Density | : | ca.1,04 g/cm ³ at 20 °C |
| Water solubility | : | No data available |
| Partition coefficient: n- octanol/water | : | No data available |
| Viscosity, dynamic | : | ca.450 mPa.s at 20 °C |
| Viscosity, kinematic | : | > 20,5 mm ² /s at 40 °C |
| Relative vapour density | : | No data available |
| Evaporation rate | : | 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 : Stable under recommended storage conditions.

Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : ethanol, methanol



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Components:

4,4,7,7-tetraethoxy-3,8-dioxo-4,7-disiladecane:

Acute oral toxicity : LD50 Oral (Rat): 161 mg/kg

Acute inhalation toxicity : Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 Dermal (Rat): 1.971 mg/kg

bis(trimethoxysilylpropyl)amine:

Acute oral toxicity : LD50 Oral (Rat): 3.780 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 11.865 mg/kg

1,2-Bis(triethoxysilyl)ethene:

Acute oral toxicity : LD50 Oral (Rat): 161 mg/kg

Acute dermal toxicity : LD50 Dermal (Rat): 1.971 mg/kg

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute oral toxicity : LD50 Oral (Rat): 7.010 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rabbit): 4.248 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

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.

SECTION 12: Ecological information

12.1 Toxicity

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane :

Toxicity to fish : LC50: 55 mg/l, 96 h, Cyprinus carpio (Carp)

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 : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Harmful to aquatic life with long lasting effects.

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 09* waste adhesives and sealants containing organic solvents or other dangerous substances
- Contaminated packaging : 15 01 10* packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

ADR

- 14.1 UN number : 1133
14.2 UN proper shipping name : ADHESIVES
14.3 Transport hazard class(es) : 3
14.4 Packing group : III
Classification Code : F1
Labels : 3
Tunnel restriction code : (D/E)
14.5 Environmental hazards : no

ADR

Exempted according to 2.2.3.1.5 (Viscous substance exemption)

IATA

- 14.1 UN number : 1133
14.2 UN proper shipping name : Adhesives
14.3 Transport hazard class(es) : 3
14.4 Packing group : III
Labels : 3
14.5 Environmental hazards : no

IMDG

- 14.1 UN number : 1133
14.2 UN proper shipping name : ADHESIVES
14.3 Class : 3
14.4 Packing group : III
Labels : 3
EmS Number 1 : F-E

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sikasil® WT-485 Comp. B



Revision Date 24.04.2018

Version 2.0

Print Date 24.04.2018

EmS Number 2 : S-D

14.5 Marine pollutant : no

IMDG

Transport in accordance with 2.3.2.5 of the IMDG-Code

14.6 Special precautions for user

No data available

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

Not applicable

SECTION 15: Regulatory information

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

Prohibition/Restriction

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: (3)

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.

| | | Quantity 1 | Quantity 2 |
|------------------|-----------------------------|------------|------------|
| P5c | FLAMMABLE LIQUIDS | 5.000 t | 50.000 t |
| VOC-CH (VOCV) | : < 0,01 % 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: : Environmental Protection Act 1990 & Subsidiary Regulations
Health and Safety at Work Act 1974 & Subsidiary Regulations
Control of Substances Hazardous to Health Regulations (COSHH)
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

| | |
|------|--|
| H301 | Toxic if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H335 | May cause respiratory irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of other abbreviations

| | |
|-----------------|--|
| Acute Tox. | Acute toxicity |
| Aquatic Chronic | Chronic aquatic toxicity |
| Eye Dam. | Serious eye damage |
| Skin Irrit. | Skin irritation |
| Skin Sens. | Skin sensitisation |
| STOT SE | Specific target organ toxicity - single exposure |
| 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 |
| 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 |

Classification of the mixture:

 Flam. Liq. 3

H226

Classification procedure:

Based on product data or assessment

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006
Sikasil® WT-485 Comp. B



Revision Date 24.04.2018

Version 2.0

Print Date 24.04.2018

| | | |
|-------------------|------|--------------------|
| Acute Tox. 4 | H302 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| Aquatic Chronic 3 | H412 | 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 !