



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

1.1. Product identifier

Name of product Solar-Flex
Code-Nr. 137520

1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

1-Component Adhesives and Sealants, permanently elastic

1.3. Details of the supplier of the safety data sheet

Distributor WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster
Phone : +49(0)251 / 9322 - 0, Fax : +49(0)251 / 9322 - 244
E-Mail : msds@weicon.de
Internet : www.weicon.de

Advice Produktsicherheit / Product-Safety-Department
Phone : +49(0)251 / 9322 - 0
Fax : +49(0)251 / 9322 - 244
E-mail (competent person):
msds@weicon.de

1.4. Emergency telephone number

EMERGENCY CONTACT - UK, UAE, South Africa (24h): Tel:
++44 1865 407333 (English)
TRANSPORT EMERGENCY CONTACT - UK, UAE, South
Africa (24h): Tel: ++44 1865 407333 (English)

Manufacturer WEICON GmbH & Co. KG
Königsberger Str. 255, DE-48157 Münster

1.4. Emergency telephone number

GIFTNOTRUF/TRANSPORTNOTRUF - Deutschland (24h):
Tel: ++49 69 222 25285 (Deutsch, Englisch)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Additional hints

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

No information available.

2.3. Other hazards

**Information pertaining to special dangers for human and environment**

Although this product is not subject to reporting requirements for hazardous products, we recommend compliance with the safety recommendations.

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

! SECTION 3: Composition/ information on ingredients**3.1. Substances**

not applicable

3.2. Mixtures**Description**

Sealant

! Hazardous ingredients

| CAS No | EC No | Name | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] |
|-----------|-----------|-----------------------|------------|--|
| 2768-02-7 | 220-449-8 | trimethoxyvinylsilane | 1 < 3 | Flam. Liq. 3, H226 / Acute Tox. 4;, H332 |

REACH

| CAS No | Name | REACH registration number |
|-----------|-----------------------|---------------------------|
| 2768-02-7 | trimethoxyvinylsilane | 01-2119513215-52 |

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove moisted clothing immediately.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

Rinse out mouth thoroughly with water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

ABC powder

Carbon dioxide

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Nitrogen gases (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Do not inhale explosion and/or combustion gases.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Clean with cleaning agents that do not contain solvents.

Take up mechanically and send for disposal.

6.4. Reference to other sections

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

! SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Do not inhale gases/vapours/aerosols.

**Hygiene measures**

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Wash hands before breaks and after work.

Advice on protection against fire and explosion

Pay attention to general rules of internal fire prevention.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep in closed original container.

Advice on storage compatibility

Do not store together with animal feedstuffs.

Do not store together with food.

! Further information on storage conditions

Protect from atmospheric moisture and water

Protect from heat.

Protect from heat and direct solar radiation.

Store container at cool and aired place.

Store in a dry place.

Recommended storage temperature: room temperature.

7.3. Specific end use(s)**Recommendation(s) for intended use**

See section 1.2

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****DNEL-/PNEC-values****DNEL worker**

| CAS No | Substance name | Value | Code | Remark |
|-----------|-----------------------|-----------------------|--------------------------------------|--------|
| 2768-02-7 | trimethoxyvinylsilane | 4,9 mg/m ³ | DNEL long-term inhalative (systemic) | |
| | | 0,69 mg/kg bw/day | DNEL long-term dermal (systemic) | |

DNEL Consumer

| CAS No | Substance name | Value | Code | Remark |
|-----------|-----------------------|------------------------|--|--------|
| 2768-02-7 | trimethoxyvinylsilane | 0,3 mg/kg bw/day | DNEL acute dermal, short-term (systemic) | |
| | | 93,4 mg/m ³ | DNEL acute inhalative (systemic) | |
| | | 1,04 mg/m ³ | DNEL long-term inhalative (systemic) | |
| | | 26,9 mg/kg bw/day | DNEL acute dermal, short-term (systemic) | |

PNEC

| CAS No | Substance name | Value | Code | Remark |
|-----------|-----------------------|---------------|-----------------------------|--------|
| 2768-02-7 | trimethoxyvinylsilane | 0,12 mg/kg dw | PNEC sediment, marine water | |
| | | 1,24 mg/kg dw | PNEC sediment, freshwater | |

**DNEL-/PNEC-values (continued)**

| CAS No | Substance name | Value | Code | Remark |
|--------|----------------|------------|------------------------------------|--------|
| | | 3,4 mg/l | PNEC aquatic, intermittent release | |
| | | 0,034 mg/l | PNEC aquatic, marine water | |
| | | 0,34 mg/l | PNEC aquatic, freshwater | |

Additional advice

The statutory local and national regulations have to be observed.

8.2. Exposure controls**Respiratory protection**

If ventilation insufficient, wear respiratory protection.

Hand protection

In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer of the gloves.

Chemical protective gloves must be chosen carefully in view of their design and depending on the dependence on the concentration and amounts of dangerous goods used in the specific working tasks.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: butyl rubber, 0,7mm; 480min

Eye protection

tightly fitting goggles

Other protection measures

protective clothing

Appropriate engineering controls

Sufficient ventilation and exhaustion.

! SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

pasty

Colour

various, depending on coloration

Odour

characteristic

Odour threshold

not determined

Important health, safety and environmental information

| | Value | Temperature | at | Method | Remark |
|-----------------------------|----------------|-------------|----|--------|--------|
| pH value | not determined | | | | |
| boiling point | not determined | | | | |
| melting point | not determined | | | | |
| Flash point | not applicable | | | | |
| Vapourisation rate | not determined | | | | |
| Flammable (solid) | no | | | | |
| Flammability (gas) | not determined | | | | |
| Ignition temperature | not applicable | | | | |



| | Value | Temperature | at | Method | Remark |
|--|------------------------|-------------|----|--------|-------------------------------------|
| Self ignition temperature | | | | | The product is not self-igniting. |
| Lower explosion limit | not determined | | | | |
| Upper explosion limit | not determined | | | | |
| Vapour pressure | not determined | | | | |
| Relative density | 1,6 g/cm ³ | 20 °C | | | |
| Bulk density | 1600 kg/m ³ | | | | Absolute Dichte |
| Vapour density | not determined | | | | |
| Solubility in water | | | | | insoluble |
| Solubility/other | | | | | soluble in most of organic solvents |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | not determined | | | | |
| Viscosity dynamic | not determined | | | | |
| Viscosity kinematic | not determined | | | | |
| Oxidising properties no | | | | | |
| Explosive properties no | | | | | |
| 9.2. Other information No information available. | | | | | |

! SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Nitrous gases

Carbon monoxide and carbon dioxide.

Metaloxides

Thermal decomposition

Remark No decomposition if used as directed.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

| | Value/Validation | Species | Method | Remark |
|------------------------------|--|---------|----------|----------------|
| LD50 acute oral | 7120 mg/kg | rat | OECD 401 | CAS: 2768-02-7 |
| LD50 acute dermal | 3,36 mg/kg | rabbit | OECD 402 | CAS: 2768-02-7 |
| LC50 acute inhalation | 16,8 mg/l (4 h) | rat | OECD 403 | CAS: 2768-02-7 |
| Skin irritation | low irritant effect - not necessary to label | | | |
| Eye irritation | low irritant - no labeling duty | | | |
| Skin sensitization | non-sensitizing | | | |

Subacute Toxicity - Carcinogenicity

| | Value | Species | Method | Validation |
|------------------------------|-------|---------|--------|---|
| Chronic Toxicity | | | | - |
| Mutagenicity | | | | No experimental information on genotoxicity in vitro available. |
| Reproduction-Toxicity | | | | No indications of toxic effects were observed in reproduction studies in animals. |
| Carcinogenicity | | | | No indications of carcinogenic effects are available from long-term trials. |

Experiences made from practice

According to our experience and current information, the product has no detrimental effects on health if handled and used correctly

Frequent persistent contact with the skin may cause skin irritation.

Additional information

The product is to be handled with the caution usual with chemicals.

Other hazardous properties may not be excluded.

The product has not been tested. The information is derived from the properties of the individual components.

! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

| | Value | Species | Method | Validation |
|----------------|------------------------|---------------------------------|----------------|----------------|
| Fish | LC50 191 mg/l (96 h) | Oncorhynchus mykiss | | CAS: 2768-02-7 |
| Daphnia | EC50 168,7 mg/l (48 h) | Daphnia magna | EU Methode C.2 | CAS: 2768-02-7 |
| Algae | EC50 210 mg/l (7 d) | Pseudokirchneriella subcapitata | EPA 67014-73-0 | CAS: 2768-02-7 |

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|---------------------------------|------------------|--------------------|------------|------------------------|
| Biological degradability | 51 % (28 d) | | OECD 301 F | not readily degradable |

12.3. Bioaccumulative potential

The product has not been tested. Because of the product's consistency and low solubility in water bioavailability is not likely.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

General regulation

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

Product is not allowed to be discharged into aquatic environment.

The ecotoxic effect of the product has not been tested. The information on this is given on the basis of details in the literature.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Waste code No. | Name of waste |
|----------------|---|
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09 |
| 15 01 02 | plastic packaging |

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Dispose of according to the local waste regulations.

General information

Assignment to a waste code number / waste identification according to the EWC is to be carried out on a sector or process-specific basis.

**! SECTION 14: Transport information**

| | ADR/RID | IMDG | IATA-DGR |
|--|---------------------------|------|----------|
| 14.1. UN number | - | - | - |
| 14.2. UN proper shipping name | - | - | - |
| 14.3. Transport hazard class(es) | - | - | - |
| 14.4. Packing group | - | - | - |
| 14.5. Environmental hazards | - | - | - |
| 14.6. Special precautions for user | No information available. | | |
| 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | not applicable | | |

! Transport/further information

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

! SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****! VOC standard**

| | |
|-------------|-----------|
| VOC content | 2,61 % |
| VOC value | 41,78 g/L |

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

For industrial use only.

Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! --- Our safety data sheets have been compiled according to effective EU-directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 8.6

| | |
|------|------------------------------|
| H226 | Flammable liquid and vapour. |
| H332 | Harmful if inhaled. |