

SAFETY DATA SHEET

Sikaflex®-11 FC⁺



Version 1.0

SDS Number: 100000016106

Revision Date: 25.09.2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikaflex®-11 FC⁺

Product code : 100000016106

Manufacturer or supplier's details

Company : Sika Ltd.
Nagatoro 1 - 1
Hiratsuka - Shi
Kanagawa 2540021
Japan

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Prepared by : Administration & EHS

2. HAZARDS IDENTIFICATION

GHS Classification

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : May cause an allergic skin reaction.

Precautionary statements : **Prevention:**
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.
Response:
IF ON SKIN: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/ attention.
Take off contaminated clothing and wash it before reuse.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

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Sikaflex®-11 FC⁺



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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (%) | ENCS/ISHL number |
|-------------------------------------|-------------|-------------------|------------------|
| Hardener LI (Isophoronedialdimine) | 932742-30-8 | $\geq 0.25 - < 1$ | - |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | $\geq 0.1 - < 1$ | 4-118 |
| Titanium dioxide | 13463-67-7 | $\geq 1 - < 10$ | 1-558 |
| methanol | 67-56-1 | $0 - < 0.1$ | 2-201 |

4. 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 : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
Obtain medical attention.
- Most important symptoms and effects, both acute and delayed : sensitising effects
Allergic reactions
See Section 11 for more detailed information on health effects and symptoms.
May cause an allergic skin reaction.
- Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Hazardous combustion products : No hazardous combustion products are known
- Specific extinguishing methods : Standard procedure for chemical fires.

SAFETY DATA SHEET

Sikaflex®-11 FC⁺



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Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Deny access to unprotected persons.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and 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.

7. HANDLING AND STORAGE

Handling

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

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.
Follow standard hygiene measures when handling chemical products

Avoidance of contact : No data available

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.

Storage

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

SAFETY DATA SHEET

Sikaflex®-11 FC⁺



Version 1.0

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Threshold limit value and permissible exposure limits for each component in the work environment

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|-------------------------------------|--|-------------------------------|--|----------------|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | OEL-M | 0.05 mg/m ³ | JP OEL JSOH |
| | Further information: Airway sensitizing agent; Group 1 substances which induce allergic reactions in humans | | | |
| | | TWA | 0.005 ppm | ACGIH |
| methanol | 67-56-1 | ACL | 200 ppm | JP OEL ISHL |
| | | OEL-M | 200 ppm 260 mg/m ³ | JP OEL JSOH |
| | Further information: Provisional, Group 2: Substances presumed to cause reproductive toxicity in humans, Skin absorption | | | |
| | | TWA | 200 ppm | ACGIH |
| | | STEL | 250 ppm | ACGIH |

Personal protective equipment

- Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.
- Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.
- Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Colour : White, Grey, Black
- Odour : characteristic
- pH : Not applicable
- Melting point/range / Freezing point : No data available

SAFETY DATA SHEET

Sikaflex®-11 FC⁺



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| | |
|-----------------------------|--|
| Boiling point/boiling range | : No data available |
| Flash point | : ca. 150 °C (302 °F) Method: closed cup |
| Evaporation rate | : No data available |
| Flammability | : No data available |
| Upper explosion limit | : No data available |
| Lower explosion limit | : No data available |
| Vapour pressure | : 0.01 hPa (0.01 mmHg) |
| Relative vapour density | : No data available |
| Density | : ca. 1.37 g/cm ³ (23 °C) |
| Water solubility | : insoluble |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|---|
| Reactivity | : No dangerous reaction known under conditions of normal use. |
| Chemical stability | : The product is chemically stable. |
| Possibility of hazardous reactions | : Stable under recommended storage conditions. |
| Conditions to avoid | : No data available |
| Incompatible materials | : No data available |
| Hazardous decomposition products | : No decomposition if stored and applied as directed. |

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Hardener LI (Isophoronedialdimine):

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2,000 mg/kg

4,4'-methylenediphenyl diisocyanate:

Acute inhalation toxicity : Acute toxicity estimate: 1.5 mg/l Test atmosphere: dust/mist,
Method: Expert judgement

methanol:

SAFETY DATA SHEET

Sikaflex®-11 FC⁺



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- Acute oral toxicity : Acute toxicity estimate: 100 mg/kg Method: Converted acute toxicity point estimate
- Acute inhalation toxicity : Acute toxicity estimate: 3 mg/l Exposure time: 4 h
Test atmosphere: vapour
Method: Converted acute toxicity point estimate
- Acute dermal toxicity : Acute toxicity estimate: 300 mg/kg
Method: Converted acute toxicity point estimate

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: 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

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Hardener LI (Isophoronedialdimine):

Toxicity to fish : LC50 (Fish): 87.2 mg/l
Exposure time: 96 h

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

Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 180.4 mg/l
Exposure time: 72 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

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Hazardous to the ozone layer

Not applicable

Other adverse effects

Product:

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

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not dangerous goods

IATA-DGR

Not dangerous goods

IMDG-Code

Not dangerous goods

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

Not applicable for product as supplied.

National Regulations

Refer to section 15 for specific national regulation.

15. REGULATORY INFORMATION

Related Regulations

Fire Service Law

Not applicableIndustrial Safety and Health Law

Harmful Substances Prohibited from Manufacture

Not applicable

Harmful Substances Required Permission for Manufacture

Not applicable

Substances Prevented From Impairment of Health

Not applicable

Circular concerning Information on Chemicals having Mutagenicity - Annex 2: Information on Existing Chemicals having Mutagenicity

Not applicable

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Sikaflex®-11 FC⁺



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Circular concerning Information on Chemicals having Mutagenicity - Annex 1: Information on Notified Substances having Mutagenicity

Not applicable

Substances Subject to be Notified Names

Article 57-2 (Enforcement Order Table 9)

| Chemical name | Number | Concentration (%) |
|--|--------|-------------------|
| Titanium(IV) oxide | 191 | >=1 - <10 |
| Methylenebis(4,1-phenylene) diisocyanate | 599 | >=0.1 - <1 |

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

| Chemical name | Number |
|--------------------|--------|
| Titanium(IV) oxide | 191 |

Ordinance on Prevention of Hazards Due to Specified Chemical Substances

Not applicable

Ordinance on Prevention of Lead Poisoning

Not applicable

Ordinance on Prevention of Tetraalkyl Lead Poisoning

Not applicable

Ordinance on Prevention of Organic Solvent Poisoning

Not applicable

Poisonous and Deleterious Substances Control Law

Not applicable

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not applicable

International Chemical Weapons Convention (CWC) : Not applicable
Schedules of Toxic Chemicals and Precursors

High Pressure Gas Safety Act

Not applicable

16. OTHER 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.