

SAFETY DATA SHEET

Sikaflex®-252 J



Version 4.0

SDS Number: 000000601669

Revision Date: 16.06.2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikaflex®-252 J

Product code : 000000601669

Manufacturer or supplier's details

Company : Sika Ltd.
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Prepared by : Quality Assurance & EHS Group

2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2

Skin sensitisation : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 1B

Specific target organ toxicity - single exposure : Category 2 (Central nervous system, Kidney, Liver, respiratory system, respiratory tract system)

Specific target organ toxicity - repeated exposure : Category 2 (Nervous system, respiratory tract system)

Short-term (acute) aquatic hazard : Category 3

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs (Central nervous system, Kidney, Liver, respiratory system, respiratory tract system).

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Precautionary statements : May cause damage to organs (Nervous system, respiratory tract system) through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Prevention:
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
IF ON SKIN: Wash with plenty of water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF exposed or concerned: Call a POISON CENTER/doctor.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Take off contaminated clothing and wash it before reuse.

Storage:
Store locked up.

Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

| Chemical name | CAS-No. | Concentration (%) | ENCS/ISHL number |
|-------------------------------------|------------|-------------------|------------------|
| Xylene | 1330-20-7 | 3.0 | 3-3, 3-60 |
| Ethylbenzene | 100-41-4 | 1.0 | 3-60 |
| Calcium oxide | 1305-78-8 | >= 1 - < 5 | 1-189 |
| Titanium(IV) oxide | 13463-67-7 | >= 1 - < 5 | 1-558 |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | >= 0.1 - < 1 | 4-118 |

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.

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| | |
|---|--|
| 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 | : 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 | : irritant effects sensitising effects Allergic reactions Excessive lachrymation See Section 11 for more detailed information on health effects and symptoms. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child. May cause damage to organs. May cause damage to organs through prolonged or repeated exposure. |
| 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. |
| 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. If the product contaminates rivers and lakes or drains inform respective authorities. |
| 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

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- 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.

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 |
|-------------------------------------|---|-------------------------------|--|----------------|
| titanium dioxide | 13463-67-7 | TWA | 10 mg/m ³ (Titanium dioxide) | ACGIH |
| xylene | 1330-20-7 | OEL-M | 50 ppm 217 mg/m ³ | JP OEL JSOH |
| | Further information: Group 2: Substances presumed to cause reproductive toxicity in humans | | | |
| | | ACL | 50 ppm | JP OEL ISHL |
| | | TWA | 100 ppm | ACGIH |
| | | STEL | 150 ppm | ACGIH |
| calcium oxide | 1305-78-8 | TWA | 2 mg/m ³ | ACGIH |
| ethylbenzene | 100-41-4 | ACL | 20 ppm | JP OEL ISHL |
| | | OEL-M | 50 ppm 217 mg/m ³ | JP OEL JSOH |
| | Further information: Group 2: Substances presumed to cause reproductive toxicity in humans, Group 2B: possibly carcinogenic to humans | | | |
| 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 |

Personal protective equipment

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| | |
|--------------------------|--|
| 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 |
| Odour | : characteristic |
| Odour Threshold | : No data available |
| pH | : Not applicable |
| Melting point/range / Freezing point | : No data available |
| Boiling point/boiling range | : No data available |
| Flash point | : ca. 96.5 °C (205.7 °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. 1.14 g/cm ³ (23 °C) |
| Solubility(ies) | |
| Water solubility | : insoluble |
| Partition coefficient: n-octanol/water | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity | |
| Viscosity, dynamic | : No data available |

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| | |
|----------------------|-------------------------------------|
| Viscosity, kinematic | : > 20.5 mm ² /s (40 °C) |
| Explosive properties | : No data available |
| Molecular weight | : 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 | : No hazards to be specially mentioned. |
| 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

Components:

xylene:

| | |
|-----------------------|-------------------------------------|
| Acute oral toxicity | : LD50 Oral (Rat): 3,523 mg/kg |
| Acute dermal toxicity | : LD50 Dermal (Rabbit): 1,700 mg/kg |

ethylbenzene:

| | |
|-----------------------|-------------------------------------|
| Acute oral toxicity | : LD50 Oral (Rat): 3,500 mg/kg |
| Acute dermal toxicity | : LD50 Dermal (Rabbit): 5,510 mg/kg |

4,4'-methylenediphenyl diisocyanate:

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

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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

Suspected of causing cancer.

Reproductive toxicity

May damage fertility or the unborn child.

STOT - single exposure

May cause damage to organs (Central nervous system, Kidney, Liver, respiratory system, respiratory tract system).

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STOT - repeated exposure

May cause damage to organs (Nervous system, respiratory tract system) through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.3 mg/l
Exposure time: 96 h

ethylbenzene:

Toxicity to fish : LC50 (Fish): <= 1 mg/l
Exposure time: 96 h

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

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 : The product should not be allowed to enter drains, water courses or the soil.
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 regulated as a dangerous good

IATA-DGR

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Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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 applicable (Designated Flammable Substances)

Industrial 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

| |
|---------------|
| Chemical name |
| Ethylbenzene |

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

Not applicable

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 |
| Xylene | 136 | >=1 - <10 |
| Calcium oxide | 190 | >=1 - <10 |
| Ethylbenzene | 70 | >=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 |
| xylene | 136 |
| Calcium oxide | 190 |
| ethylbenzene | 70 |

Ordinance on Prevention of Hazards Due to Specified Chemical Substances - Group 2 Substance

| |
|---------------|
| Chemical name |
|---------------|

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Ethylbenzene

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

Class I Designated Chemical Substances

| Chemical name | Number | Concentration (%) |
|---------------|--------|-------------------|
| xylene | 80 | 3.0 |
| ethylbenzene | 53 | 1.0 |

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

Narcotic or Psychotropic Raw Material : Not applicable

Specific Narcotic or Psychotropic Raw Material : Not applicable

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.