

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

Revision Date: 16.06.2020

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sikaflex®-355 HC

Product code : 100000012341

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


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

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May damage fertility or the unborn child.
May cause damage to organs (Central nervous system, Kidney, Liver, respiratory system, respiratory tract system).
May cause damage to organs (Nervous system, respiratory tract system) through prolonged or repeated exposure.

SAFETY DATA SHEET

Sikaflex®-355 HC



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SDS Number: 100000012341

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Harmful to aquatic life.

Precautionary statements

- : **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.
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 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	2.0	3-3, 3-60
calcium oxide	1305-78-8	>= 1 - < 3	1-189
Carbon black	1333-86-4	>= 1 - < 5	
ethylbenzene	100-41-4	>= 0.3 - < 1	3-28, 3-60
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.
- 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.

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

Revision Date: 16.06.2020

If swallowed	: Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist. : 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. 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.
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).

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

Revision Date: 16.06.2020

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
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

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

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

Revision Date: 16.06.2020

Hand protection	: product. If this concentration is exceeded, self-contained breathing apparatus must be used. : 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	: black
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. 98 °C (208 °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. 1.17 g/cm ³ (23 °C (73 °F))
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
Viscosity, kinematic	: > 20.5 mm ² /s (40 °C)

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

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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

Not classified based on available information.

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

Not classified based on available information.

Reproductive toxicity

May damage fertility or the unborn child.

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

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STOT - single exposure

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

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:

ethylbenzene:

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

M-Factor (Acute aquatic toxicity) : 1

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 : 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

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

Revision Date: 16.06.2020

Not regulated as a dangerous good

IATA-DGR

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

Not applicable

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 (%)
Carbon black	130	>=1 - <10
Xylene	136	>=1 - <10
Calcium oxide	190	>=1 - <10
Ethylbenzene	70	>=0.1 - <1
Methylenebis(4,1-phenylene) diisocyanate	599	>=0.1 - <1

Substances Subject to be Indicated Names

Article 57 (Enforcement Order Article 18)

Chemical name	Number
xylene	136
Calcium oxide	190
ethylbenzene	70
Carbon black	130

SAFETY DATA SHEET

Sikaflex®-355 HC



Version 2.0

SDS Number: 100000012341

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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

Class I Designated Chemical Substances

Chemical name	Number	Concentration (%)
xylene	80	2.0

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

Narcotic or Psychotropic Raw Material (Export / Import Permission) : Not applicable

Specific Narcotic or Psychotropic Raw Material (Export / Import permission) : 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.