

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

SECTION 1. IDENTIFICATION

Product name : Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn
Product code : 000000000050426749

Manufacturer or supplier's details

Company name of supplier : Sika MBCC US LLC
Address : 201 POLITO AVE
Lyndhurst NJ 07071
Emergency telephone : ChemTel: +1-813-248-0585

Recommended use of the chemical and restrictions on use

Recommended use : Product for construction chemicals
Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Inhalation - vapour) : 4
Serious eye damage/eye irritation : Category 2A
Respiratory sensitization : Category 1
Skin sensitization : Category 1
Carcinogenicity : 2
Specific target organ toxicity - repeated exposure : Category 1 (Central nervous system)

GHS label elements

Hazard pictograms : The image shows two GHS hazard pictograms side-by-side. The first is a red diamond with a black exclamation mark inside, representing acute toxicity. The second is a red diamond with a black silhouette of a person with a starburst on their chest, representing serious eye damage/eye irritation.

Signal Word : Danger

Hazard Statements : H332 Harmful if inhaled.
H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing diffi-

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0	Revision Date: 09/09/2020	SDS Number: 000000687749	Date of last issue: - Date of first issue: 09/09/2020
----------------	------------------------------	-----------------------------	----------------------------------------------------------

culties if inhaled.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

Precautionary Statements :

Prevention:

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P271 Use only outdoors or in a well-ventilated area.
P260 Do not breathe dust or mist.
P201 Obtain special instructions before use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P202 Do not handle until all safety precautions have been read and understood.
P284 In case of inadequate ventilation wear respiratory protection.
P270 Do not eat, drink or smoke when using this product.
P264 Wash face, hands and any exposed skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.

Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314 Get medical advice/ attention if you feel unwell.
P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to appropriate hazardous waste collection point.

Other hazards

CONTAINS ISOCYANATES. INHALATION OF ISOCYANATE MISTS OR VAPORS MAY CAUSE RESPIRATORY IRRITATION, BREATHLESSNESS, CHEST DISCOMFORT AND REDUCED PULMONARY FUNCTION. OVEREXPOSURE WELL ABOVE THE PEL MAY RESULT IN BRONCHITIS, BRONCHIAL SPASMS AND PULMONARY EDEMA. LONG-TERM EXPOSURE TO ISOCYANATES HAS BEEN REPORTED TO CAUSE LUNG DAMAGE, INCLUDING REDUCED LUNG FUNCTION WHICH MAY BE PERMANENT. ACUTE OR

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

CHRONIC OVEREXPOSURE TO ISOCYANATES MAY CAUSE SENSITIZATION IN SOME INDIVIDUALS, RESULTING IN ALLERGIC RESPIRATORY REACTIONS INCLUDING WHEEZING, SHORTNESS OF BREATH AND DIFFICULTY BREATHING. ANIMAL TESTS INDICATE THAT SKIN CONTACT MAY PLAY A ROLE IN CAUSING RESPIRATORY SENSITIZATION.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Sealant

Components

Chemical name	CAS-No.	Concentration (% w/w)
Limestone	1317-65-3	$\geq 10 - < 20$
Titanium dioxide	13463-67-7	$\geq 3 - < 5$
talc	14807-96-6	$\geq 3 - < 5$
Stoddard solvent	8052-41-3	$\geq 1 - < 3$
calcium oxide	1305-78-8	$\geq 1 - < 3$
trimethoxy(3-(oxiranylmethoxy)propyl)silane	2530-83-8	$\geq 0.3 - < 1$
toluene-2,6-diisocyanate	91-08-7	$\geq 0.3 - < 1$
4-methyl-m-phenylene diisocyanate	584-84-9	$\geq 0.03 - < 0.04$

SECTION 4. FIRST AID MEASURES

- General advice : Remove contaminated clothing.
Move out of dangerous area.
Show this material safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove the affected individual into fresh air and keep the person calm.
Assist in breathing if necessary.
Immediate medical attention required.
Call a physician or poison control center immediately.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash affected areas thoroughly with soap and water.
If irritation develops, seek medical attention.
If on skin, rinse well with water.
- In case of eye contact : In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.
Immediate medical attention required.
Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye.

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 00000687749 Date of last issue: -
Date of first issue: 09/09/2020

- Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Rinse mouth and then drink 200-300 ml of water.
Do NOT induce vomiting.
Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.
Immediate medical attention required.
- Induce vomiting immediately and call a physician.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
-

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Foam
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : nitrous gases
fumes/smoke
isocyanate
vapor
- Further information : Keep containers cool by spraying with water if exposed to fire.
Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.
- Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0	Revision Date: 09/09/2020	SDS Number: 000000687749	Date of last issue: - Date of first issue: 09/09/2020
----------------	------------------------------	-----------------------------	----------------------------------------------------------

Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Clear area.
Ensure adequate ventilation.
Wear suitable personal protective clothing and equipment.
Use personal protective equipment.
Ensure adequate ventilation.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Dike spillage.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Provide suitable exhaust ventilation at the processing machines.
Ensure thorough ventilation of stores and work areas.
Avoid aerosol formation.
When handling heated product, vapours of the product should be ventilated, and respiratory protection used.
Wear respiratory protection when spraying.
Danger of bursting when sealed gastight.
Protect against moisture.
If bulging of drum occurs, transfer to well ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.
- Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Keep only in the original container in a cool, well-ventilated place.
Protect from direct sunlight.
Store protected against freezing.

Materials to avoid : Observe VCI storage rules.

Recommended storage temperature : 1 °F / -17 °C

118 °F / 48 °C

Further information on storage stability : Minimum storage temperature:

Maximum storage temperature:

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
calcium oxide	1305-78-8	TWA value	2 mg/m3	ACGIH TLV
		REL value	2 mg/m3	NIOSH
		REL	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	5 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	2 mg/m3	ACGIH
		TWA	2 mg/m3	NIOSH REL
		TWA	5 mg/m3	OSHA Z-1
Limestone	1317-65-3	TWA	5 mg/m3	OSHA P0
		REL value (Respirable)	5 mg/m3	NIOSH
		REL value (Total)	10 mg/m3	NIOSH
		REL (Respirable fraction)	5 mg/m3	29 CFR 1910.1000 (Table Z-1)
		REL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Respirable)	5 mg/m3	29 CFR 1910.1000

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
 Date of first issue: 09/09/2020

		fraction)		(Table Z-1-A)
		TWA value (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 mg/m3	OSHA P0
		TWA (Respirable)	5 mg/m3 (Calcium carbonate)	NIOSH REL
		TWA (total)	10 mg/m3 (Calcium carbonate)	NIOSH REL
Titanium dioxide	13463-67-7	TWA value	10 mg/m3	ACGIHTLV
		PEL (Total dust)	15 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value (Total dust)	10 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA	10 mg/m3 (Titanium dioxide)	ACGIH
talc	14807-96-6	TWA value (Respirable fraction)	2 mg/m3	ACGIHTLV
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m3	OSHA P0
		TWA (Respirable)	2 mg/m3	NIOSH REL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m3	ACGIH
Stoddard solvent	8052-41-3	TWA value	100 ppm	ACGIHTLV
		REL value	350 mg/m3	NIOSH
		Ceil_Time	1,800 mg/m3	NIOSH
		PEL	500 ppm	29 CFR

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

			2,900 mg/m3	1910.1000 (Table Z-1)
		TWA value	100 ppm 525 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	100 ppm	ACGIH
		TWA	350 mg/m3	NIOSH REL
		C	1,800 mg/m3	NIOSH REL
		TWA	500 ppm 2,900 mg/m3	OSHA Z-1
		TWA	100 ppm 525 mg/m3	OSHA P0

Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
carbon monoxide	630-08-0	TWA value	25 ppm	ACGIHTLV
		REL value	35 ppm 40 mg/m3	NIOSH
		Ceil_Time	200 ppm 229 mg/m3	NIOSH
		REL	50 ppm 55 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	35 ppm 40 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		CLV	200 ppm 229 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm	ACGIH
		TWA	35 ppm 40 mg/m3	NIOSH REL
		C	200 ppm 229 mg/m3	NIOSH REL
		TWA	50 ppm 55 mg/m3	OSHA Z-1
		TWA	35 ppm 40 mg/m3	OSHA P0
		C	200 ppm 229 mg/m3	OSHA P0
carbon dioxide	124-38-9	TWA value	5,000 ppm	ACGIHTLV
		STEL value	30,000 ppm	ACGIHTLV
		REL value	5,000 ppm 9,000 mg/m3	NIOSH
		STEL value	30,000 ppm 54,000 mg/m3	NIOSH
		REL	5,000 ppm 9,000 mg/m3	29 CFR 1910.1000

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
 Date of first issue: 09/09/2020

		TWA value	10,000 ppm 18,000 mg/m3	(Table Z-1) 29 CFR 1910.1000 (Table Z-1-A)
		STEL value	30,000 ppm 54,000 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	5,000 ppm	ACGIH
		STEL	30,000 ppm	ACGIH
		TWA	5,000 ppm 9,000 mg/m3	NIOSH REL
		ST	30,000 ppm 54,000 mg/m3	NIOSH REL
		TWA	5,000 ppm 9,000 mg/m3	OSHA Z-1
		TWA	10,000 ppm 18,000 mg/m3	OSHA P0
		STEL	30,000 ppm 54,000 mg/m3	OSHA P0
hydrogen cyanide	74-90-8	CLV	4.7 ppm (CN)	ACGIHTLV
		C	4.7 ppm (Cyanide)	ACGIH
		ST	4.7 ppm 5 mg/m3	NIOSH REL
		TWA	10 ppm 11 mg/m3	OSHA Z-1
		STEL	4.7 ppm 5 mg/m3	OSHA P0

Engineering measures : Provide adequate exhaust ventilation to control work place concentrations.

Personal protective equipment

Respiratory protection : When workers are facing concentrations above the occupational exposure limits they must use appropriate certified respirators.
 When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.
 For emergency or non-routine, high exposure situations, including confined space entry, use a NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection

Remarks : Chemical resistant protective gloves should be worn to pre-

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

vent all skin contact. Suitable materials may include chloro-prene rubber (Neoprene) nitrile rubber (Buna N) chlorinated polyethylene polyvinylchloride (Pylox) butyl rubber depending upon conditions of use.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

- Eye protection : Tightly fitting safety goggles (chemical goggles).
Wear face shield if splashing hazard exists.
Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Cover as much of the exposed skin as possible to prevent all skin contact.
Suitable materials may include saran-coated material depending upon conditions of use.
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Wear protective clothing as necessary to prevent contact.
Eye wash fountains and safety showers must be easily accessible.
Observe the appropriate PEL or TLV value.
- Hygiene measures : Wash soiled clothing immediately.
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary.
When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
-

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : paste
- Color : gray
- Odor : mild
- Odor Threshold : No data available
- pH : neutral
- Melting point : No applicable information available.
- Boiling point : No applicable information available.

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

Flash point : does not flash

Evaporation rate : No applicable information available.

Flammability (solid, gas) : not flammable
Method: Manual of tests and criteria. Test N.1 (United Nations Recommendations on the Transport of Dangerous Goods).

Self-ignition : not self-igniting

Upper explosion limit / Upper flammability limit : No applicable information available.

Lower explosion limit / Lower flammability limit : No applicable information available.

Vapor pressure : No applicable information available.

Relative vapor density : No applicable information available.

Relative density : No applicable information available.

Density : 9.6 lb/USg (77 °F / 25 °C)

Solubility(ies)
Water solubility : insoluble (59 °F / 15 °C)

Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : No applicable information available.

Autoignition temperature : No applicable information available.

Decomposition temperature : No decomposition if stored and handled as prescribed/indicated.

Viscosity
Viscosity, dynamic : No applicable information available.

Viscosity, kinematic : No applicable information available.

Explosive properties : Not explosive

Oxidizing properties : Not an oxidizer.

Self-heating substances : No data available

Sublimation point : No applicable information available.

Molecular weight : No data available

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

SECTION 10. STABILITY AND REACTIVITY

- Reactivity : No hazardous reactions if stored and handled as prescribed/indicated.
No decomposition if stored and applied as directed.
- Chemical stability : The product is stable if stored and handled as prescribed/indicated.
No decomposition if stored and applied as directed.
- Possibility of hazardous reactions : Reacts with water, with formation of carbon dioxide.
Risk of bursting.
Reacts with alcohols.
Reacts with acids.
Reacts with alkalis.
Reacts with amines.
Risk of exothermic reaction.
Risk of polymerization.
Contact with certain rubbers and plastics can cause brittleness of the substance/product with subsequent loss in strength.
No decomposition if stored and applied as directed.
- Conditions to avoid : Avoid moisture.
See SDS section 7 - Handling and storage.
- Incompatible materials : Acids
Amines
Alcohols
Water
Alkalines
Strong bases
Substances/products that react with isocyanates.
- Hazardous decomposition products : nitrogen oxides
Aromatic isocyanates
gases/vapours

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : ATE: 14.8 mg/l
Remarks: Determined for vapor

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/09/2020	000000687749	Date of first issue: 09/09/2020

Acute dermal toxicity : Remarks: No applicable information available.

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product:

Remarks : Causes sensitization.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Causes damage to organs (Central nervous system) through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

Persistence and degradability

No data available

Bioaccumulative potential

Components:

Titanium dioxide:

Partition coefficient: n-octanol/water : Remarks: not applicable

talc:

Partition coefficient: n-octanol/water : Remarks: not applicable

Stoddard solvent:

Partition coefficient: n-octanol/water : log Pow: 3.5 - 6.4 (68 °F / 20 °C)
Method: Partition coefficient (n-octanol/water), HPLC method.

calcium oxide:

Partition coefficient: n-octanol/water : Remarks: The value has not been determined because the substance is inorganic.

trimethoxy(3-(oxiranylmethoxy)propyl)silane:

Partition coefficient: n-octanol/water : log Pow: -0.915
Method: other (calculated)
Remarks: unmeasurable

toluene-2,6-diisocyanate:

Partition coefficient: n-octanol/water : log Pow: 3.74
Method: other (calculated)

4-methyl-m-phenylene diisocyanate:

Partition coefficient: n-octanol/water : log Pow: 3.43 (72 °F / 22 °C)
pH: 7
Method: Partition coefficient (n-octanol/water), HPLC method.
GLP: no
Remarks: Based on data from similar materials

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : There is a high probability that the product is not acutely harmful to aquatic organisms.
The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of in accordance with national, state and local regulations. Do not discharge into drains/surface waters/groundwater.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

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.

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

SARA 311/312 Hazards : Acute
Chronic

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

toluene-2,6-diisocyanate 91-08-7

US State Regulations

Pennsylvania Right To Know

calcium oxide	1305-78-8
Limestone	1317-65-3
Titanium dioxide	13463-67-7

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 00000687749 Date of last issue: -
Date of first issue: 09/09/2020

talc 14807-96-6
Stoddard solvent 8052-41-3
4-methyl-m-phenylene diisocyanate 584-84-9

New Jersey Right To Know

calcium oxide 1305-78-8
Limestone 1317-65-3
Titanium dioxide 13463-67-7
talc 14807-96-6
Stoddard solvent 8052-41-3
toluene-2,6-diisocyanate 91-08-7

California Prop. 65

WARNING: This product can expose you to chemicals including toluene-2,6-diisocyanate, which is/are known to the State of California to cause cancer, and methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

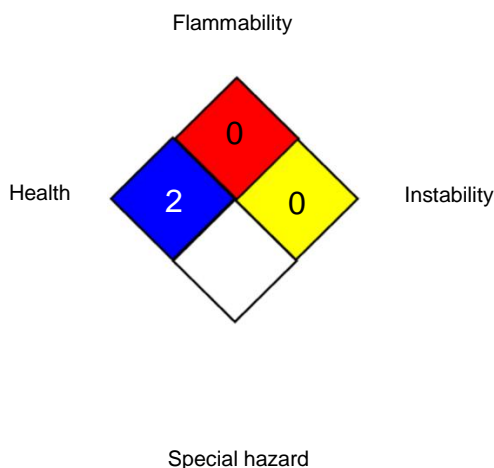
The ingredients of this product are reported in the following inventories:

TSCA : On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH		
FLAMMABILITY		
PHYSICAL HAZARD		

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

29 CFR 1910.1000 (Table Z-1-A) : OSHA - Table Z-1-A (29 CFR 1910.1000)

29 CFR 1910.1000 (Table Z-1) : OSHA - Table Z-1 (Limits for Air Contaminants) 29 CFR 1910.1000

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version 1.0 Revision Date: 09/09/2020 SDS Number: 000000687749 Date of last issue: -
Date of first issue: 09/09/2020

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV	:	American Conference of Governmental Industrial Hygienists - threshold limit values (US)
NIOSH	:	NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
29 CFR 1910.1000 (Table Z-1-A) / CLV	:	Ceiling Limit Value:
29 CFR 1910.1000 (Table Z-1-A) / STEL value	:	Short Term Exposure Limit (STEL):
29 CFR 1910.1000 (Table Z-1-A) / TWA value	:	Time Weighted Average (TWA):
29 CFR 1910.1000 (Table Z-1) / PEL	:	Permissible exposure limit
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
ACGIH / C	:	Ceiling limit
ACGIHTLV / CLV	:	Ceiling Limit Value:
ACGIHTLV / STEL value	:	Short Term Exposure Limit (STEL):
ACGIHTLV / TWA value	:	Time Weighted Average (TWA):
NIOSH / Ceil_Time	:	Ceiling Limit Value and Time Period (if specified):
NIOSH / REL value	:	Recommended exposure limit (REL):
NIOSH / STEL value	:	Short Term Exposure Limit (STEL):
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl -

SAFETY DATA SHEET

Sikaflex TX 1 natural stone Formerly MSeal TX 1 natural stn



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09/09/2020	00000687749	Date of first issue: 09/09/2020

Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date : 09/09/2020

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