

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

SECTION 1. IDENTIFICATION

Product name : Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Product code : 000000000050428971

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 : Sealant

Restrictions on use : Reserved for industrial and professional use.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Inhalation - vapour) : Category 4

Serious eye damage/eye irritation : Category 2A

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Carcinogenicity : Category 2

Specific target organ toxicity - repeated exposure : Category 1 (Central nervous system)

GHS label elements

Hazard pictograms :  

Signal Word : Danger

Hazard Statements : H332 Harmful if inhaled.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

H319 Causes serious eye irritation.
H334 May cause allergy or asthma symptoms or breathing difficulties 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 dusts or mists.
P201 Obtain special instructions before use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ 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:

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.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P312 Call a POISON CENTER/ doctor if you feel unwell.
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

Storage:

P405 Store locked up.

Disposal:

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

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version 2.0 Revision Date: 11/10/2023 SDS Number: 000000695916 Date of last issue: 01/06/2021
Date of first issue: 05/08/2020

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. 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	> 15 - < 20
Titanium dioxide	13463-67-7	>= 3 - < 5
talc	14807-96-6	>= 3 - < 5
calcium oxide	1305-78-8	>= 1 - < 3
Stoddard solvent	8052-41-3	>= 1 - < 3
Bis[2-[2-(1-methylethyl)-3-oxazolidinyl]ethyl] hexan-1,2-diylbiscarbamate	59719-67-4	>= 1 - < 3
toluene-2,6-diisocyanate	91-08-7	>= 0.3 - < 1
trimethoxy(3-(oxiranylmethoxy)propyl)silane	2530-83-8	>= 0.3 - < 1

SECTION 4. FIRST AID MEASURES

General advice : Remove contaminated clothing.

If inhaled : Remove the affected individual into fresh air and keep the person calm.
Assist in breathing if necessary.
Immediate medical attention required.

In case of skin contact : Wash affected areas thoroughly with soap and water.
If irritation develops, seek medical attention.

In case of eye contact : In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water.
Remove contact lenses.
Immediate medical attention required.

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.

Most important symptoms and effects, both acute and : May cause an allergic skin reaction.
Causes serious eye irritation.

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Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

delayed	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.
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Notes to physician : Treat symptomatically.

Suitable extinguishing media : Foam
Water spray
Dry powder
Carbon dioxide (CO₂)

Unsuitable extinguishing media : 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.

Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Personal precautions, protective equipment and emergency procedures	: Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
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Environmental precautions : Contain contaminated water/firefighting water.
Do not discharge into drains/surface waters/groundwater.

Methods and materials for : Absorb isocyanate with suitable absorbent material (see § 40
containment and cleaning up CFR, sections 260, 264 and 265 for further information).
Shovel into open container.
Do not make container pressure tight.
Spill area can be decontaminated with the following recom-
mended decontamination solution:
Mixture of 90 % water, 5-8 % household ammonia, 2-5 %
detergent.
Wash down spill area with decontamination solution.
Allow solution to stand for at least 10 minutes.
Pick up with suitable absorbent material.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version 2.0 Revision Date: 11/10/2023 SDS Number: 000000695916 Date of last issue: 01/06/2021
Date of first issue: 05/08/2020

Place into appropriately labeled waste containers.
Move container to a well-ventilated area (outside).
Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.
Dispose of absorbed material in accordance with regulations.

SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
The relevant fire protection measures should be noted.
- Advice on safe handling : Provide suitable exhaust ventilation at the processing machines.
Ensure thorough ventilation of stores and work areas.
Wear appropriate respiratory protection.
Protect against moisture.
Danger of bursting when sealed gastight.
- Conditions for safe storage : Keep only in the original container in a cool, well-ventilated place.
Protect from direct sunlight.
Store protected against freezing.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
toluene-2,6-diisocyanate	91-08-7	C	0.02 ppm 0.14 mg/m ³	OSHA Z-1
		TWA (Inhalable fraction and vapor)	0.001 ppm	ACGIH
		STEL (Inhalable fraction and vapor)	0.005 ppm	ACGIH
		TWA	0.005 ppm 0.04 mg/m ³	OSHA P0
		STEL	0.02 ppm 0.15 mg/m ³	OSHA P0
calcium oxide	1305-78-8	TWA	2 mg/m ³	ACGIH
		TWA	2 mg/m ³	NIOSH REL
		TWA	5 mg/m ³	OSHA Z-1
		TWA	5 mg/m ³	OSHA P0
Limestone	1317-65-3	TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version
2.0

Revision Date:
11/10/2023

SDS Number:
000000695916

Date of last issue: 01/06/2021
Date of first issue: 05/08/2020

		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 (total dust)	15 mg/m3	OSHA Z-1
		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (Respirable particulate matter)	0.2 mg/m3 (Titanium dioxide)	ACGIH
		TWA (Respirable particulate matter)	2.5 mg/m3 (Titanium dioxide)	ACGIH
talc	14807-96-6	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	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	ACGIH TLV
		REL value	35 ppm	NIOSH

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version
2.0

Revision Date:
11/10/2023

SDS Number:
000000695916

Date of last issue: 01/06/2021
Date of first issue: 05/08/2020

			40 mg/m3	
		Ceil_Time	200 ppm 229 mg/m3	NIOSH
		PEL	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	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
Hydrocyanic acid	74-90-8	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

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version 2.0	Revision Date: 11/10/2023	SDS Number: 000000695916	Date of last issue: 01/06/2021 Date of first issue: 05/08/2020
----------------	------------------------------	-----------------------------	---

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

Eye protection : Tightly fitting safety goggles (chemical goggles).
Wear face shield if splashing hazard exists.

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.

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Color	: tan
Odor	: mild
Odor Threshold	: not determined

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version 2.0	Revision Date: 11/10/2023	SDS Number: 000000695916	Date of last issue: 01/06/2021 Date of first issue: 05/08/2020
----------------	------------------------------	-----------------------------	---

pH	:	No data available
Melting point	:	No data available
Boiling point	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data 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 data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	10.1 lb/USg (77 °F / 25 °C)
Solubility(ies)		
Water solubility	:	insoluble (59 °F / 15 °C)
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	No data available
Decomposition temperature	:	No decomposition if stored and handled as prescribed/indicated.
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

Oxidizing properties	:	Not an oxidizer.
Self-heating substances	:	No data available
Sublimation point	:	No data available
Molecular weight	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No hazardous reactions if stored and handled as prescribed/indicated.
Chemical stability	:	The product is stable if stored and handled as prescribed/indicated.
Possibility of hazardous reactions	:	The product is stable if stored and handled as prescribed/indicated. Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalies. 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.
Conditions to avoid	:	Avoid moisture.
Incompatible materials	:	Acids Amines Alcohols Water Alkalines Strong bases Substances/products that react with isocyanates.
Hazardous decomposition products	:	nitrogen oxides Aromatic isocyanates gases/vapours No hazardous decomposition products if stored and handled as prescribed/indicated.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

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

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Causes serious eye irritation.

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.

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 : Health injuries are not known or expected under normal use.
The product has not been tested. The statements on toxicology have been derived from the properties of the individual components.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : Do not discharge product into the environment without control. The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with national, state and local regulations.
Do not contaminate ponds, waterways or ditches with chemical or used container.
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

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version 2.0 Revision Date: 11/10/2023 SDS Number: 000000695916 Date of last issue: 01/06/2021
Date of first issue: 05/08/2020

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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
toluene-2,6-diisocyanate	91-08-7	100	21097

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

Limestone	1317-65-3
4-methyl-m-phenylene diisocyanate	584-84-9
toluene-2,6-diisocyanate	91-08-7
talc	14807-96-6
methyl oleate	112-62-9
calcium oxide	1305-78-8
Titanium dioxide	13463-67-7
Stoddard solvent	8052-41-3

New Jersey Right To Know

Titanium dioxide	13463-67-7
talc	14807-96-6
calcium oxide	1305-78-8
Stoddard solvent	8052-41-3
Limestone	1317-65-3
4-methyl-m-phenylene diisocyanate	584-84-9
toluene-2,6-diisocyanate	91-08-7

California Prop. 65

WARNING: This product can expose you to chemicals including Titanium dioxide, 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 : All substances listed as active on the TSCA inventory

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version 2.0	Revision Date: 11/10/2023	SDS Number: 000000695916	Date of last issue: 01/06/2021 Date of first issue: 05/08/2020
----------------	------------------------------	-----------------------------	---

DSL : This product contains one or more components listed on the Canadian NDSL. All other components are on the Canadian DSL.

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

toluene-2,6-diisocyanate

91-08-7

See 40 CFR § 721.10789; Proposed Rule

4-methyl-m-phenylene diisocyanate 584-84-9

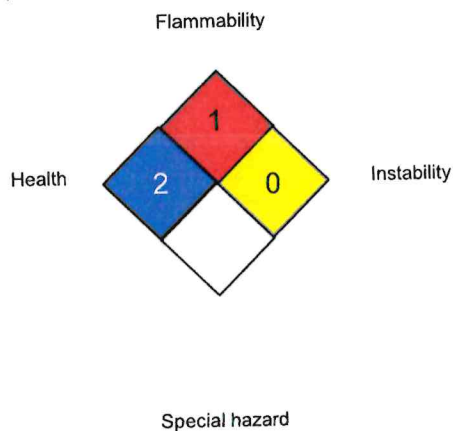
See 40 CFR § 721.10789; Proposed Rule

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:
toluene-2,6-diisocyanate 91-08-7

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
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIHTLV	: American Conference of Governmental Industrial Hygienists - threshold limit values (US)

SAFETY DATA SHEET

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Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

NIOSH	:	NIOSH Pocket Guide to Chemical Hazards (US)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
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) / 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
ACGIH TLV / 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 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-1 / C	:	Ceiling
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIIC - Australian Inventory of Industrial Chemicals; 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 - 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

SAFETY DATA SHEET

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Sikaflex NP 1 tan Formerly MSeal NP 1 Tan color

Version	Revision Date:	SDS Number:	Date of last issue: 01/06/2021
2.0	11/10/2023	000000695916	Date of first issue: 05/08/2020

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; TECL - Thailand Existing Chemicals 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

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