

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

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### SECTION 1. IDENTIFICATION

Product name : Sikaflex Primer-176 Formerly MSeal P 176 VOC  
Product code : 000000000050340184

#### 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.

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### SECTION 2. HAZARDS IDENTIFICATION

#### GHS classification in accordance with 29 CFR 1910.1200

FLAMMABLE LIQUIDS : Category 2  
Acute toxicity (Inhalation) : Category 4  
Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 2A  
Skin sensitization : Category 1  
Reproductive toxicity : Category 2  
Specific target organ toxicity - single exposure : Category 3  
Specific target organ toxicity - repeated exposure : Category 2 (Auditory organ, Central nervous system, Liver, Kidney)  
Aspiration hazard : Category 1  
Short-term (acute) aquatic hazard : Category 3

#### GHS label elements

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020



Signal Word : Danger

Hazard Statements :

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H315 Causes skin irritation.
- H332 Harmful if inhaled.
- H317 May cause an allergic skin reaction.
- H304 May be fatal if swallowed and enters airways.
- H335 May cause respiratory irritation.
- H361d Suspected of damaging the unborn child.
- H373 May cause damage to organs (Auditory organ, Central nervous system, Liver, Kidney) through prolonged or repeated exposure.
- H402 Harmful to aquatic life.

Precautionary Statements :

**Prevention:**

- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P271 Use only outdoors or in a well-ventilated area.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P260 Do not breathe dust or mist.
- P243 Take action to prevent static discharges.
- P261 Avoid breathing mist.
- P273 Avoid release to the environment.
- P201 Obtain special instructions before use.
- P241 Use explosion-proof [electrical/ ventilating/ lighting/ .?] equipment.
- P202 Do not handle until all safety precautions have been read and understood.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P242 Use only non-sparking tools.
- P240 Ground and bond container and receiving equipment.
- P264 Wash face, hands and any exposed skin thoroughly after handling.

**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.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P314 Get medical advice/ attention if you feel unwell.

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P331 Do NOT induce vomiting.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.  
P233 Keep container tightly closed.  
P405 Store locked up.

### Disposal:

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

### Other hazards

No data available.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : No data available.

### Components

Chemical name	CAS-No.	Concentration (% w/w)
(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers	28182-81-2	>= 25 - < 50
xylene	1330-20-7	>= 15 - < 20
Methylethylketone	78-93-3	>= 15 - < 20
ethylbenzene	100-41-4	>= 3 - < 5
toluene	108-88-3	>= 0 - < 0.2

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
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.

Consult a physician after significant exposure.

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

---

- 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 skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- 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.  
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.
- Keep respiratory tract clear.  
Do NOT induce vomiting.  
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 be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause respiratory irritation.  
Suspected of damaging the unborn child.
- Notes to physician : Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0	Revision Date: 10/21/2020	SDS Number: 000000260083	Date of last issue: - Date of first issue: 10/21/2020
----------------	------------------------------	-----------------------------	--

- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- 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.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.
- Special protective equipment for fire-fighters : Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.
- 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.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Product is not explosive.

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

---

Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Use only explosion-proof equipment.  
Keep away from open flames, hot surfaces and sources of ignition.

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 formation of aerosol.  
Do not breathe vapors/dust.  
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.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
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 : no smoking  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
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, dry, well-ventilated place away from ignition sources, heat or flame.  
Protect from direct sunlight.

Materials to avoid : Observe VCI storage rules.

Further information on storage : No data available

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

age stability

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methylethylketone	78-93-3	STEL value	300 ppm	ACGIHTLV
		TWA value	200 ppm	ACGIHTLV
		REL value	200 ppm 590 mg/m3	NIOSH
		STEL value	300 ppm 885 mg/m3	NIOSH
		PEL	200 ppm 590 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	200 ppm 590 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	300 ppm 885 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
		TWA	200 ppm 590 mg/m3	NIOSH REL
		ST	300 ppm 885 mg/m3	NIOSH REL
		TWA	200 ppm 590 mg/m3	OSHA Z-1
		TWA	200 ppm 590 mg/m3	OSHA P0
		STEL	300 ppm 885 mg/m3	OSHA P0
ethylbenzene	100-41-4	TWA value	20 ppm	ACGIHTLV
		STEL value	125 ppm 545 mg/m3	NIOSH
		REL value	100 ppm 435 mg/m3	NIOSH
		PEL	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	125 ppm 545 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	20 ppm	ACGIH
		TWA	100 ppm	NIOSH REL

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

			435 mg/m3	
		ST	125 ppm 545 mg/m3	NIOSH REL
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
toluene	108-88-3	TWA value	20 ppm	ACGIHTLV
		REL value	100 ppm 375 mg/m3	NIOSH
		STEL value	150 ppm 560 mg/m3	NIOSH
		TWA value	100 ppm 375 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	150 ppm 560 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		max. conc.	500 ppm	29 CFR 1910.1000 (Table Z-2)
		CLV	300 ppm	29 CFR 1910.1000 (Table Z-2)
		TWA value	200 ppm	29 CFR 1910.1000 (Table Z-2)
		TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 mg/m3	OSHA P0
xylene	1330-20-7	TWA value	100 ppm	ACGIHTLV
		STEL value	150 ppm	ACGIHTLV
		PEL	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 435 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		STEL value	150 ppm 655 mg/m3	29 CFR 1910.1000



# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 00000260083      Date of last issue: -  
Date of first issue: 10/21/2020

				(Table Z-1-A)
		REL value	100 ppm 435 mg/m3	NIOSH
		STEL value	150 ppm 655 mg/m3	NIOSH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0

**Engineering measures** : No applicable information available.

### 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 prevent all skin contact. Suitable materials may include chloroprene rubber (Neoprene) nitrile rubber (Buna N) chlorinated polyethylene polyvinylchloride (Pylox) butyl rubber fluoroelastomer (Viton) 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

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	10/21/2020	000000260083	Date of first issue: 10/21/2020

---

- depending upon conditions of use.  
Impervious clothing  
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 : liquid
- Color : clear
- Odor : strong, solvent
- Odor Threshold : No data available
- pH : neutral to slightly alkaline
- Melting point : No applicable information available.
- Boiling point : 135.00 - 174.99 °F / 57.22 - 79.44 °C
- Flash point : 35.01 - 39.99 °F / 1.67 - 4.44 °C  
Method: Standard Method of Test for Flash Point by Setaflash Closed Tester
- Evaporation rate : No applicable information available.
- Flammability (solid, gas) : Highly flammable.  
Method: derived from flash point
- Upper explosion limit / Upper flammability limit : 7 %(V)
- Lower explosion limit / Lower flammability limit : 1 %(V)
- Vapor pressure : No data available
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# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0	Revision Date: 10/21/2020	SDS Number: 000000260083	Date of last issue: - Date of first issue: 10/21/2020
----------------	------------------------------	-----------------------------	--

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Relative vapor density	:	Heavier than air.
Relative density	:	No applicable information available.
Density	:	0.99 g/cm <sup>3</sup> (68 °F / 20 °C)
Solubility(ies)	:	
Water solubility	:	slightly soluble
Solubility in other solvents	:	No applicable information available.
Partition coefficient: n-octanol/water	:	No data available.
Autoignition temperature	:	No data 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 Not explosive
Oxidizing properties	:	Based on its structural properties the product is not classified as oxidizing.
Sublimation point	:	No applicable information available.
Molecular weight	:	No data available

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### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong acids Strong bases Strong oxidizing agents Strong reducing agents
Hazardous decomposition	:	No hazardous decomposition products if stored and handled

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# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

---

products as prescribed/indicated.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if inhaled.

#### Product:

Acute oral toxicity : Remarks: No applicable information available.

Acute inhalation toxicity : 3.85 mg/l  
Remarks: Determined for mist

Acute dermal toxicity : Remarks: No applicable information available.

#### Skin corrosion/irritation

Causes skin irritation.

#### 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

Not classified based on available information.

#### Product:

Remarks : Causes sensitization.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Suspected of damaging the unborn child.

#### STOT-single exposure

May cause respiratory irritation.

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

---

### **STOT-repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Product:**

May also damage the lung at swallowing (aspiration hazard).

### **Further information**

### **Product:**

Remarks : Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

No data available

### **Persistence and degradability**

No data available

### **Bioaccumulative potential**

### **Components:**

#### **(OLIGOMER) Hexamethylene diisocyanate isocyanurate-type oligomers:**

Partition coefficient: n-octanol/water : Remarks: unmeasurable

log Pow: 9.81 (77 °F / 25 °C)  
Method: other (calculated)

#### **Methylethylketone:**

Partition coefficient: n-octanol/water : log Pow: 0.29  
Method: other (measured)  
GLP: no data  
Remarks: Information taken from reference works and the literature.

#### **ethylbenzene:**

Partition coefficient: n-octanol/water : Pow: 4,170 (68 °F / 20 °C)  
log Pow: 3.6 (68 °F / 20 °C)  
pH: 7.8  
Method: Partition coefficient  
GLP: yes

#### **toluene:**

Partition coefficient: n-octanol/water : log Pow: 2.73 (68 °F / 20 °C)  
pH: 7

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 000000260083      Date of last issue: -  
Date of first issue: 10/21/2020

---

Method: other (measured)  
GLP: no data  
Remarks: Information taken from reference works and the literature.

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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## 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.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 1263  
Proper shipping name : PAINT  
Class : 3  
Packing group : II  
Labels : 3

#### IATA-DGR

UN/ID No. : UN 1263  
Proper shipping name : PAINT  
Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

#### IMDG-Code

UN number : UN 1263

---

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	10/21/2020	000000260083	Date of first issue: 10/21/2020

---

Proper shipping name : PAINT

Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : no

### 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

UN/ID/NA number : UN 1263  
Proper shipping name : PAINT

Class : 3  
Packing group : II  
Labels : FLAMMABLE LIQUID  
ERG Code : 128  
Marine pollutant : no

### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## SECTION 15. REGULATORY INFORMATION

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

xylene 1330-20-7

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

ethylbenzene 100-41-4

### US State Regulations

#### Pennsylvania Right To Know

ethylbenzene 100-41-4  
xylene 1330-20-7

#### New Jersey Right To Know

Methylethylketone 78-93-3  
ethylbenzene 100-41-4  
xylene 1330-20-7  
toluene 108-88-3

# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



Version 1.0      Revision Date: 10/21/2020      SDS Number: 00000260083      Date of last issue: -  
Date of first issue: 10/21/2020

### California Prop. 65

WARNING: This product can expose you to chemicals including benzene, which is/are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

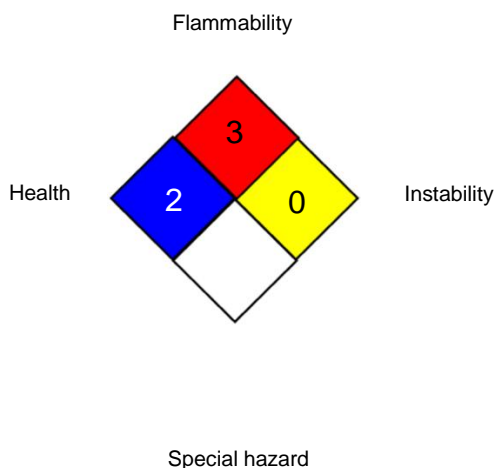
The ingredients of this product are reported in the following inventories:

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
- 29 CFR 1910.1000 (Table Z-2) : OSHA Table Z-2 (Toxic and Hazardous Substances) 29 CFR 1910.1000
- 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-2 : USA. Occupational Exposure Limits (OSHA) - Table Z-2



# SAFETY DATA SHEET

## Sikaflex Primer-176 Formerly MSeal P 176 VOC



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- 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
- 29 CFR 1910.1000 (Table Z-2) / CLV : Ceiling Limit Value:
- 29 CFR 1910.1000 (Table Z-2) / TWA value : Time Weighted Average (TWA):
- 29 CFR 1910.1000 (Table Z-2) / max. conc. : Maximum concentration:
- ACGIH / TWA : 8-hour, time-weighted average
- ACGIH / STEL : Short-term exposure limit
- ACGIHTLV / STEL value : Short Term Exposure Limit (STEL):
- ACGIHTLV / TWA value : Time Weighted Average (TWA):
- 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
- OSHA P0 / TWA : 8-hour time weighted average
- OSHA P0 / STEL : Short-term exposure limit
- OSHA Z-1 / TWA : 8-hour time weighted average
- OSHA Z-2 / TWA : 8-hour time weighted average
- OSHA Z-2 / CEIL : Acceptable ceiling concentration
- OSHA Z-2 / Peak : Acceptable maximum peak above the acceptable ceiling concentration for an 8-hr shift

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; KECI - 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

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Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	10/21/2020	000000260083	Date of first issue: 10/21/2020

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es; (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 : 10/21/2020

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