

# SAFETY DATA SHEET

## Sikalastic HLM 5000 R Formerly MSeal HLM 5000RG



Version 2.0      Revision Date: 07/30/2020      SDS Number: 000000260276      Date of last issue: 07/30/2020  
Date of first issue: 04/29/2020

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### SECTION 1. IDENTIFICATION

Product name : Sikalastic HLM 5000 R Formerly MSeal HLM 5000RG  
Product code : 000000000051677002

#### 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  
Sealant  
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

Aspiration hazard : Category 1  
Flammable liquids : Category 3  
Skin corrosion/irritation : Category 2  
Serious eye damage/eye irritation : Category 1  
Germ cell mutagenicity : Category 2  
Specific target organ toxicity - repeated exposure : Category 1 (Central nervous system)  
Reproductive toxicity : Category 1B  
Hazardous to the aquatic environment - acute hazard : Category 3  
Hazardous to the aquatic environment - chronic hazard : Category 3

#### GHS label elements

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Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapour.  
H318 Causes serious eye damage.  
H315 Causes skin irritation.  
H304 May be fatal if swallowed and enters airways.  
H341 Suspected of causing genetic defects.  
H372 Causes damage to organs (Central nervous system) through prolonged or repeated exposure.  
H360 May damage fertility or the unborn child.  
H402 Harmful to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe dust or mist.  
P201 Obtain special instructions before use.  
P273 Avoid release to the environment.  
P243 Take action to prevent static discharges.  
P202 Do not handle until all safety precautions have been read and understood.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P270 Do not eat, drink or smoke when using this product.  
P264 Wash face, hands and any exposed skin thoroughly after handling.  
P233 Keep container tightly closed.  
P242 Use only non-sparking tools.  
P240 Ground and bond container and receiving equipment.  
**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.  
P310 Immediately call a POISON CENTER or doctor/ physician.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P331 Do NOT induce vomiting.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
**Storage:**  
P405 Store locked up.

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P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

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

### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : polyurethane

### Components

Chemical name	CAS-No.	Concentration (% w/w)
talca	14807-96-6	$\geq 25 - < 50$
Asphalt	8052-42-4	$\geq 7 - < 15$
Stoddard solvent	8052-41-3	$\geq 5 - < 10$
calcium oxide	1305-78-8	$\geq 7 - < 10$
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	$\geq 0 - < 5$
1,2,4-trimethylbenzene	95-63-6	$\geq 0 - < 10$
Solvent naphtha (petroleum), light arom.	64742-95-6	$\geq 0 - < 10$
Trimethylbenzene	25551-13-7	$\geq 0 - < 5$
mesitylene	108-67-8	$\geq 0 - < 3$
dibutyltin dilaurate	77-58-7	$\geq 0.2 - < 0.3$

## SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
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.  
If breathing difficulties develop, aid in breathing and seek immediate medical attention.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.  
If skin irritation persists, call a physician.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty

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- of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
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 due to aspiration hazard.  
Do not induce vomiting unless told to by a poison control center or doctor.
- Most important symptoms and effects, both acute and delayed : May be fatal if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye damage.  
Suspected of causing genetic defects.  
May damage fertility or the unborn child.  
Causes damage to organs through prolonged or repeated exposure.
- Notes to physician : Treat symptomatically.
- 

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : harmful vapours  
nitrogen oxides  
fumes/smoke  
carbon black  
carbon oxides
- Further information : The degree of risk is governed by the burning substance and the fire conditions.  
Containers may rocket or explode in heat of fire.  
Keep containers cool by spraying with water if exposed to fire.  
Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protection : Use personal protective equipment.
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- tive equipment and emergency procedures      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).
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### SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion      :    Sources of ignition should be kept well clear.  
Take precautionary measures against static discharges.  
Substance/product can form explosive mixture with air.  
Vapours are heavier than air and may accumulate in low areas and travel a considerable distance up to the source of ignition.
- Advice on safe handling      :    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.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.
- 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 container tightly closed and in a well-ventilated place.  
Keep away from heat.  
Avoid all sources of ignition: heat, sparks, open flame.
- Materials to avoid      :    Segregate from foods and animal feeds.
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Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
1,2,4-trimethylbenzene	95-63-6	TWA value	25 ppm	ACGIHTLV
		REL value	25 ppm 125 mg/m3	NIOSH
		TWA value	25 ppm 125 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm 125 mg/m3	NIOSH REL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
mesitylene	108-67-8	TWA value	25 ppm	ACGIHTLV
		REL value	25 ppm 125 mg/m3	NIOSH
		TWA value	25 ppm 125 mg/m3	29 CFR 1910.1000 (Table Z-1-A)
		TWA	25 ppm 125 mg/m3	NIOSH REL
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m3	OSHA P0
calcium oxide	1305-78-8	TWA value	2 mg/m3	ACGIHTLV
		REL value	2 mg/m3	NIOSH
		PEL	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
		TWA	5 mg/m3	OSHA P0
Asphalt	8052-42-4	TWA value (Inhalable fraction)	0.5 mg/m3 (benzene solubles)	ACGIHTLV
		Ceil_Time (fumes/smoke)	5 mg/m3	NIOSH

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		TWA value (Inhalable fume)	0.5 mg/m <sup>3</sup> (benzene solubles)	ACGIHTLV
		TWA (Fume, inhalable fraction)	0.5 mg/m <sup>3</sup> (benzene soluble aerosol)	ACGIH
		C (Fumes)	5 mg/m <sup>3</sup>	NIOSH REL
talc	14807-96-6	TWA value (Respirable fraction)	2 mg/m <sup>3</sup>	ACGIHTLV
		TWA (Dust)	20 Million particles per cubic foot	OSHA Z-3
		TWA (respirable dust fraction)	2 mg/m <sup>3</sup>	OSHA P0
		TWA (Respirable)	2 mg/m <sup>3</sup>	NIOSH REL
		TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Respirable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
Trimethylbenzene	25551-13-7	TWA value	25 ppm	ACGIHTLV
		TWA value	25 ppm 125 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		REL value	25 ppm 125 mg/m <sup>3</sup>	NIOSH
		TWA	25 ppm	ACGIH
		TWA	25 ppm 125 mg/m <sup>3</sup>	OSHA P0
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2,000 mg/m <sup>3</sup>	OSHA Z-1
		TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0
Stoddard solvent	8052-41-3	TWA value	100 ppm	ACGIHTLV
		REL value	350 mg/m <sup>3</sup>	NIOSH
		Ceil_Time	1,800 mg/m <sup>3</sup>	NIOSH
		PEL	500 ppm 2,900 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1)
		TWA value	100 ppm 525 mg/m <sup>3</sup>	29 CFR 1910.1000 (Table Z-1-A)
		TWA	100 ppm	ACGIH
		TWA	350 mg/m <sup>3</sup>	NIOSH REL
		C	1,800 mg/m <sup>3</sup>	NIOSH REL
		TWA	500 ppm	OSHA Z-1

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			2,900 mg/m3	
		TWA	100 ppm 525 mg/m3	OSHA P0
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	TWA value (Inhalable fraction)	5 mg/m3	ACGIHTLV
		TWA (Mist)	5 mg/m3	OSHA Z-1
		TWA (Inhalable particulate matter)	5 mg/m3	ACGIH
		TWA (Mist)	5 mg/m3	OSHA P0
		TWA (Mist)	5 mg/m3	NIOSH REL
		ST (Mist)	10 mg/m3	NIOSH REL

**Engineering measures** : Ensure adequate ventilation.

### Personal protective equipment

Respiratory protection : Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection

Remarks : Wear chemical resistant protective gloves. Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection : Safety glasses with side-shields.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Avoid inhalation of dusts/mists/vapours.  
Avoid contact with the skin, eyes and clothing.  
Avoid prolonged and/or repeated contact with the skin.  
Handle in accordance with good building materials hygiene and safety practice.

Hygiene measures : 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 : slightly viscous

Color : black

Odor : aromatic



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Odor Threshold : not determined

pH : not applicable

Freezing point : No data available.

boiling temperature : approx. 307 °F / 153 °C

Flash point : 120 °F / 49 °C  
Method: Flash-Point by Pensky-Martens Closed Cup Tester.

Evaporation rate : No applicable information available.

Flammability (solid, gas) : Flammable.

Upper explosion limit / Upper flammability limit : 7.0 %(V)

Lower explosion limit / Lower flammability limit : 0.9 %(V)

Vapor pressure : approx. 8 mmHg (77 °F / 25 °C)

Relative vapor density : Heavier than air.

Relative density : No applicable information available.

Density : approx. 10.3 lb/USg (70 °F / 21 °C)  
approx. 1.23 g/cm<sup>3</sup> (68 °F / 20 °C)

Bulk density : 900 - 1,600 kg/m<sup>3</sup>

Solubility(ies)  
Water solubility : slightly soluble (68 °F / 20 °C)  
Solubility in other solvents : No applicable information available.

Partition coefficient: n-octanol/water : not applicable for mixtures

Autoignition temperature : No data available

Decomposition temperature : Vapors may form explosive mixture with air.  
No decomposition if stored and handled as prescribed/indicated.

Viscosity  
Viscosity, dynamic : No applicable information available.

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Viscosity, kinematic                   : No applicable information available.  
Explosive properties                    : Not explosive  
  
Oxidizing properties                    : not fire-propagating  
Sublimation temperature               : 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 oxidizing agents  
Hazardous decomposition products   : No hazardous decomposition products if stored and handled  
  as prescribed/indicated.

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Not classified based on available information.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

##### Skin sensitization

Not classified based on available information.

##### Respiratory sensitization

Not classified based on available information.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

#### Carcinogenicity

Not classified based on available information.

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### Reproductive toxicity

May damage fertility or the unborn child.

### 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

May be fatal if swallowed and enters airways.

### Product:

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

### 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.

Remarks : Solvents may degrease the skin.

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Harmful to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

#### Persistence and degradability

No data available

#### Bioaccumulative potential

#### Components:

##### **talc:**

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

##### **Asphalt:**

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

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### 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.

### 1,2,4-trimethylbenzene:

Partition coefficient: n-octanol/water : log Pow: 3.63 (77 °F / 25 °C)  
Method: other (calculated)

### Solvent naphtha (petroleum), light arom.:

Partition coefficient: n-octanol/water : log Pow: 3.17  
Method: other (calculated)  
GLP: no

### mesitylene:

Partition coefficient: n-octanol/water : log Pow: 3.42  
Method: other (measured)

### dibutyltin dilaurate:

Partition coefficient: n-octanol/water : log Pow: 3.17 (69.4 °F / 20.8 °C)  
pH: 6.1 - 6.3  
Method: Partition coefficient (n-octanol/water), Shake-flask method  
GLP: yes

### 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.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life.  
Harmful to aquatic life with long lasting effects.

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Dispose of in accordance with national, state and local regula-

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tions.  
Do not discharge into drains/surface waters/groundwater.  
Do not contaminate ponds, waterways or ditches with chemical or used container.

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

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

##### IATA-DGR

UN/ID No. : UN 1263  
Proper shipping name : PAINT  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

##### IMDG-Code

UN number : UN 1263  
Proper shipping name : PAINT  
  
Class : 3  
Packing group : III  
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 : III  
Labels : FLAMMABLE LIQUID  
ERG Code : 128

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Marine pollutant : no  
Remarks : DOT: Combustible liquid, only regulated in receptacles exceeding 119 gallons; not shipped as dangerous goods in receptacles less than 120 gallons.

### 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.

## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know

#### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
xylene	1330-20-7	100	17210
Asphalt	8052-42-4	100	980

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

1,2,4-trimethylbenzene	95-63-6
cumene	98-82-8

### US State Regulations

#### Pennsylvania Right To Know

1,2,4-trimethylbenzene	95-63-6
mesitylene	108-67-8
calcium oxide	1305-78-8
Asphalt	8052-42-4
talc	14807-96-6
Trimethylbenzene	25551-13-7
Solvent naphtha (petroleum), light arom.	64742-95-6
Stoddard solvent	8052-41-3
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5

#### New Jersey Right To Know

1,2,4-trimethylbenzene	95-63-6
calcium oxide	1305-78-8
talc	14807-96-6
Solvent naphtha (petroleum), light arom.	64742-95-6
Stoddard solvent	8052-41-3
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5

#### 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).

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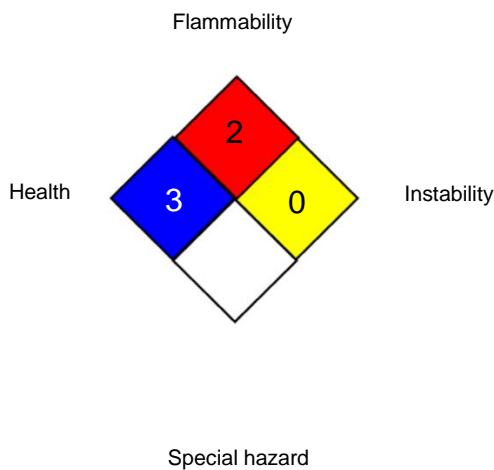
**The ingredients of this product are reported in the following inventories:**

- TSCA : All chemical substances in this product are either listed as active on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
- DSL : All components of this product are on the Canadian DSL

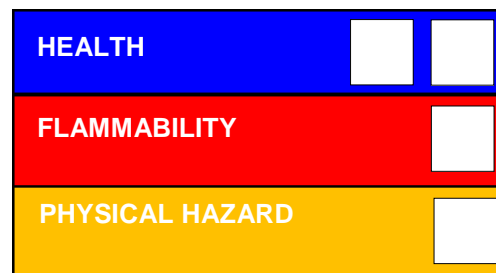
### SECTION 16. OTHER INFORMATION

#### Further information

##### NFPA 704:



##### HMIS® IV:



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)
- 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) / TWA value : Time Weighted Average (TWA):
- 29 CFR 1910.1000 (Table Z-1) / PEL : Permissible exposure limit

# SAFETY DATA SHEET

## Sikalastic HLM 5000 R Formerly MSeal HLM 5000RG



Version 2.0      Revision Date: 07/30/2020      SDS Number: 000000260276      Date of last issue: 07/30/2020  
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ACGIH / TWA : 8-hour, time-weighted average  
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 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 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; 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; (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 : 07/30/2020

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