## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name : Sikalastic®-701 Part B

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Liquid applied membranes

### 1.3 Details of the supplier of the safety data sheet

| | | |
|---|---|---|
| Company name of supplier | : | Sika Hellas ABEE<br>15 Protomagias Street<br>145 68 Kryoneri / Athens |
| Telephone | : | +30 210 81 60 600 |
| Telefax | : | +30 210 81 60 606 |
| E-mail address of person responsible for the SDS | : | EHS@gr.sika.com |

### 1.4 Emergency telephone number

Poison Information Center + 30 210 77 93 777

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

| | |
|---|---|
| Acute toxicity, Category 4 | H332: Harmful if inhaled. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Respiratory system | H335: May cause respiratory irritation. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :

Signal word : Warning

| | | |
|---|---|---|
| Hazard statements | : | H317 May cause an allergic skin reaction. |
| | | H332 Harmful if inhaled. |
| | | H335 May cause respiratory irritation. |
| | | H411 Toxic to aquatic life with long lasting effects. |

Precautionary statements : **Prevention:**

| | |
|---|---|
| P261 | Avoid breathing mist or vapours. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves. |

**Response:**

| | |
|---|---|
| P304 + P340 + P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |
| P391 | Collect spillage. |

**Hazardous components which must be listed on the label:**

Hexamethylene-1,6-diisocyanate homopolymer
aliphatic polyisocyanate 1
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol
Hexamethylene diisocyanate, oligomers
aliphatic polyisocyanate 3

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| Hexamethylene-1,6-diisocyanate homopolymer<br>Contains:<br>hexamethylene-di-isocyanate <= 0,3 % | 28182-81-2<br>931-274-8<br>01-2119485796-17-XXXX | Acute Tox. 4; H332<br>Skin Sens. 1; H317<br>STOT SE 3; H335 (Respiratory system)<br>---<br>Acute toxicity esti-mate<br><br>Acute inhalation tox-icity (dust/mist): 1,5 mg/l | >= 40 - < 60 |
| aliphatic polyisocyanate 1 | 164250-92-4<br>Not Assigned | Acute Tox. 4; H332<br>Skin Sens. 1B; H317<br>STOT SE 3; H335 (Respiratory system)<br>Aquatic Chronic 2; H411 | >= 25 - < 40 |
| Hexanedioic acid, polymer with 1,4-butanediol, 1,6-diisocyanatohexane, 2,2-dimethyl-1,3-propanediol and 1,6-hexanediol | 29891-05-2<br>Not Assigned | Acute Tox. 4; H332<br>Skin Sens. 1B; H317<br>STOT SE 3; H335 (Respiratory system)<br>Aquatic Chronic 2; H411 | >= 10 - < 20 |
| Hexamethylene diisocyanate, oligomers<br>Contains:<br>hexamethylene-di-isocyanate <= 0,3 % | 28182-81-2<br>931-288-4<br>500-060-2<br>01-2119488177-26-XXXX | Acute Tox. 3; H331<br>Skin Sens. 1; H317<br>STOT SE 3; H335 (Respiratory system)<br>---<br>Acute toxicity esti-mate<br><br>Acute inhalation tox-icity (dust/mist): 0,5001 mg/l | >= 5 - < 10 |

| | | | |
|---|---|---|---|
| aliphatic polyisocyanate 3 | 1809331-98-3<br>Not Assigned | Acute Tox. 4; H332<br>Skin Sens. 1B; H317<br>STOT SE 3; H335 (Respiratory system)<br>Aquatic Chronic 2; H411<br><br>Acute toxicity estimate<br><br>Acute inhalation toxicity (dust/mist): 1,5 mg/l | >= 0,25 - < 1 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Cough
Respiratory disorder
Allergic reactions
Headache
See Section 11 for more detailed information on health effects and symptoms.

Risks : irritant effects
sensitising effects

May cause an allergic skin reaction.

Harmful if inhaled.
May cause respiratory irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : No hazardous combustion products are known

**5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : 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.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Deny access to unprotected persons.

**6.2 Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Advice on safe handling | : | Avoid exceeding the given occupational exposure limits (see section 8).<br>Do not get in eyes, on skin, or on clothing.<br>For personal protection see section 8.<br>Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Provide sufficient air exchange and/or exhaust in work rooms.<br>Follow standard hygiene measures when handling chemical products |
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. |

### 7.2 Conditions for safe storage, including any incompatibilities

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | 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. Store in accordance with local regulations. |
| Further information on storage stability | : | No decomposition if stored and applied as directed. |

### 7.3 Specific end use(s)

| | | |
|---|---|---|
| Specific use(s) | : | Consult most current local Product Data Sheet prior to any use. |

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters * | Basis * |
|---|---|---|---|---|
| Hexamethylene-1,6-diisocyanate homopolymer | 28182-81-2 | STEL | 0,02 ppm<br>0,15 mg/m3 | GR OEL |
| | | TWA | 0,01 ppm<br>0,075 mg/m3 | GR OEL |

| | | | | |
|---|---|---|---|---|
| Hexamethylene diisocyanate, oligomers | 28182-81-2 | STEL | 0,02 ppm<br>0,15 mg/m3 | GR OEL |
| | | TWA | 0,01 ppm<br>0,075 mg/m3 | GR OEL |

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

### 8.2 Exposure controls

**Engineering measures**

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eye/face protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.

Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (> 0,1 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
organic vapor filter (Type A)
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.
Ensure adequate ventilation, especially in confined areas.

**Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | liquid |
| Colour | : | No data available |
| Odour | : | mild |
| Melting point/range / Freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flammability (solid, gas) | : | No data available |

**Upper/lower flammability or explosive limits**

| | | |
|---|---|---|
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | > 61 °C |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | Not applicable |

**Viscosity**

| | | |
|---|---|---|
| Viscosity, kinematic | : | > 20,5 mm2/s (40 °C) |

**Solubility(ies)**

| | | |
|---|---|---|
| Water solubility | : | insoluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | 0,01 hPa |
| Density | : | ca. 1,35 g/cm3 (20 °C) |
| Relative vapour density | : | No data available |
| Particle characteristics | : | No data available |

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity
No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability
The product is chemically stable.

### 10.3 Possibility of hazardous reactions
Hazardous reactions : Stable under recommended storage conditions.

### 10.4 Conditions to avoid
Conditions to avoid : No data available

### 10.5 Incompatible materials
Materials to avoid : No data available

### 10.6 Hazardous decomposition products
No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity**
Harmful if inhaled.

**Components:**

**Hexamethylene-1,6-diisocyanate homopolymer:**

Acute oral toxicity : LD50 Oral (Rat): > 2.500 mg/kg

Acute inhalation toxicity : LC50: 1,5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Expert judgement

Acute toxicity estimate: 1,5 mg/l
Test atmosphere: dust/mist
Method: Calculation method

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

**Hexamethylene diisocyanate, oligomers:**

Acute oral toxicity : LD50 Oral (Rat): > 5.665 mg/kg

Acute inhalation toxicity : LC50: > 0,5 mg/l
Exposure time: 4 h

Test atmosphere: dust/mist
Method: Expert judgement

Acute toxicity estimate: 0,5001 mg/l
Test atmosphere: dust/mist
Method: ATE value derived from LD50/LC50 value

**aliphatic polyisocyanate 3:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 Oral (Rat): > 5.000 mg/kg |
| Acute inhalation toxicity | : | LC50: 1,5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Expert judgement<br><br>Acute toxicity estimate: 1,5 mg/l<br>Test atmosphere: dust/mist<br>Method: Calculation method |

**Skin corrosion/irritation**
Not classified based on available information.

**Serious eye damage/eye irritation**
Not classified based on available information.

**Respiratory or skin sensitisation**

**Skin sensitisation**
May cause an allergic skin reaction.

**Respiratory sensitisation**
Not classified based on available information.

**Germ cell mutagenicity**
Not classified based on available information.

**Carcinogenicity**
Not classified based on available information.

**Reproductive toxicity**
Not classified based on available information.

**STOT - single exposure**
May cause respiratory irritation.

**STOT - repeated exposure**
Not classified based on available information.

**Aspiration toxicity**
Not classified based on available information.

### 11.2 Information on other hazards

**Endocrine disrupting properties**

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**Hexamethylene diisocyanate, oligomers:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus quadricauda (Green algae)): > 50 - 100 mg/l
Exposure time: 72 h

**aliphatic polyisocyanate 3:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 8,9 mg/l
Exposure time: 96 h

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The generation of waste should be avoided or minimized wherever possible.
Empty containers or liners may retain some product residues.
This material and its container must be disposed of in a safe way.
Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR** : UN 3082

**IMDG** : UN 3082

**IATA** : UN 3082

### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(aliphatic polyisocyanate 3)

**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(aliphatic polyisocyanate 3)

**IATA** : Environmentally hazardous substance, liquid, n.o.s.
(aliphatic polyisocyanate 3)

### 14.3 Transport hazard class(es)

| | | Class | Subsidiary risks |
|---|---|---|---|
| **ADR** | : | 9 | |
| **IMDG** | : | 9 | |
| **IATA** | : | 9 | |

### 14.4 Packing group

**ADR**

| | | |
|---|---|---|
| Packing group | : | III |
| Classification Code | : | M6 |
| Hazard Identification Number | : | 90 |
| Labels | : | 9 |
| Tunnel restriction code | : | (-) |

**IMDG**

| | | |
|---|---|---|
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |

**IATA (Cargo)**

| | | |
|---|---|---|
| Packing instruction (cargo aircraft) | : | 964 |
| Packing instruction (LQ) | : | Y964 |
| Packing group | : | III |
| Labels | : | Miscellaneous |

**IATA (Passenger)**

| | | |
|---|---|---|
| Packing instruction (passenger aircraft) | : | 964 |
| Packing instruction (LQ) | : | Y964 |
| Packing group | : | III |
| Labels | : | Miscellaneous |

### 14.5 Environmental hazards

**ADR**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**IMDG**

| | | |
|---|---|---|
| Marine pollutant | : | yes |

**IATA (Passenger)**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**IATA (Cargo)**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

### 14.6 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.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| | | |
|---|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered: Number on list 3 |
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors | : | Not applicable |
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | None of the components are listed (=> 0.1 %). |
| REACH - List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) | : | Not applicable |
| Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals | : | Not applicable |

REACH Information: All substances contained in our Products are
- registered by our upstream suppliers, and/or
- registered by us, and/or
- excluded from the regulation, and/or
- exempted from the registration.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Law on the incentive tax for volatile organic compounds (VOCV)
no VOC duties

Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Not applicable

### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H317 | : | May cause an allergic skin reaction. |
| H331 | : | Toxic if inhaled. |
| H332 | : | Harmful if inhaled. |
| H335 | : | May cause respiratory irritation. |
| H411 | : | Toxic to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Skin Sens. | : | Skin sensitisation |
| STOT SE | : | Specific target organ toxicity - single exposure |
| GR OEL | : | Greece. Exposure limit values |
| GR OEL / TWA | : | Long term exposure limit |
| GR OEL / STEL | : | Short term exposure limit |
| ADR | : | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS | : | Chemical Abstracts Service |
| DNEL | : | Derived no-effect level |
| EC50 | : | Half maximal effective concentration |
| GHS | : | Globally Harmonized System |
| IATA | : | International Air Transport Association |
| IMDG | : | International Maritime Code for Dangerous Goods |
| LD50 | : | Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals) |
| LC50 | : | Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period) |
| MARPOL | : | International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 |
| OEL | : | Occupational Exposure Limit |
| PBT | : | Persistent, bioaccumulative and toxic |
| PNEC | : | Predicted no effect concentration |
| REACH | : | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency |
| SVHC | : | Substances of Very High Concern |
| vPvB | : | Very persistent and very bioaccumulative |

**Further information**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Acute Tox. 4 | H332 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H335 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

GR / EN