



# Material Safety Data Sheet

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

|              |   |                                                                |
|--------------|---|----------------------------------------------------------------|
| Product Name | : | MEGASEAL TPU PART A                                            |
| HS CODE      | : | 32089000                                                       |
| Application  | : | Elastomeric Pitch Polyurethane Joint Sealant                   |
| Manufacturer | : | MATEX CONSTRUCTION CHEMICALS<br>MANUFACTURING CO. L.L.C.       |
| Address      | : | P.O. Box 29585                                                 |
| Telephone    | : | +971 4 3334140                                                 |
| Fax          | : | +971 4 3334115                                                 |
| Email        | : | <a href="mailto:info@matex.ae">info@matex.ae</a>               |
| Website      | : | <a href="http://www.matex-global.com">www.matex-global.com</a> |

## 2. HAZARDS IDENTIFICATION:

|                   |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symbol            | : | T, N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Risk Phrase (s)   | : | R23 Toxic by inhalation<br>R45 May cause cancer<br>R40 Limited evidence of a carcinogenic effect<br>R46 May cause heritable genetic damage<br>R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment<br>R60/61 May impair fertility and may cause harm to unborn child<br>R65 Harmful: may cause lung damage if swallowed                                                                                                                                                   |
| Safety Phrase (s) | : | S36/37/39 Wear suitable protective clothing, gloves and eye/face protection<br>S38 In case of insufficient ventilation, wear suitable respiratory equipment<br>S45 In case of accident or if you feel unwell, seek medical Advice immediately (show the label where possible)<br>S53 Avoid exposure – obtain special instructions before use<br>S60 This material and its container must be disposed of as Hazardous waste<br>S61 Avoid release to the environment. Refer to the special Instruction safety data sheet |



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## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

| Ingredients                  | % Composition | CAS No.     |
|------------------------------|---------------|-------------|
| Coal Tar Pitch               | 30-50         | 65996-93-2  |
| Aromatic Hydrocarbon Solvent | 10-20         | 64742-94-5  |
| Inert filler                 | 30-50         | 8054-35-1   |
| Additives                    | 2-5           | proprietary |

## 4. FIRST AID MEASURES:

|            |   |                                                                                                                                                                                                                          |
|------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes       | : | Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention                                                                                                                |
| Skin       | : | Wash skin with soap and water for at least 15 minutes or use a waterless hand cleaner whilst removing contaminated clothing and shoes. Get immediate medical attention if needed                                         |
| Inhalation | : | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.                                                                                  |
| Ingestion  | : | Aspiration hazard. Do not induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration. Do not give anything by mouth to unconscious or convulsive person. Get medical attention if needed. |

## 5. FIRE FIGHTING MEASURES:

|                              |   |                                     |
|------------------------------|---|-------------------------------------|
| Suitable Extinguishing Media | : | Foam, carbon dioxide and dry powder |
| Not to be used               | : | water jet                           |
| Further information          | : | none                                |

## 6. ACCIDENTAL RELEASE MEASURES:

|                        |   |                                                                                                                                                                                  |
|------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| After Spillage/leakage | : | Absorb with suitable material e.g sand and earth, seal in plastic bag and bury in landfill. Flush contaminated area with plenty of water. In addition, please refer to the local |
|------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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|                                  |   |                                                                                        |
|----------------------------------|---|----------------------------------------------------------------------------------------|
| <b>Environmental Precautions</b> | : | regulations regarding disposal<br>Prevent entry into drains, sewers and water courses. |
|----------------------------------|---|----------------------------------------------------------------------------------------|

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## 7. HANDLING AND STORAGE:

|          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | : | Store and handle in accordance with all current regulations and standards. Label all containers. Keep separated from incompatible substances.                                                                                                                                                                                                                                                                                                |
| Handling | : | Use only with adequate ventilation. When using, do not eat, drink or smoke. Wash exposed areas thoroughly with soap and water or a waterless hand cleaner after skin contact and before eating, drinking using tobacco products or toilets. Wear protective skin care on exposed skin before and during work shift. To reduce sun sensitivity a sun blocking lotion (SPF 15+) can also be applied prior to application of a protective cream |

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

|                          |   |                                                                                                                                                       |
|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Limit           | : | MAK (DFG, 1997) Personal protective equipment                                                                                                         |
| Respiratory Protection   | : | Nasal respirator if product used in confined spaces                                                                                                   |
| Eye Protection           | : | Use safety goggles                                                                                                                                    |
| Skin Protection          | : | Impervious gloves                                                                                                                                     |
| Other Industrial Hygiene | : | Observe the usual precaution when handling chemicals<br>Wash hands before breaks and after finishing work.<br>Do not eat, drink or smoke at workplace |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

|                            |   |          |
|----------------------------|---|----------|
| Form                       | : | liquid   |
| Colour                     | : | black    |
| Boiling point (°C)         | : | N/A      |
| Melting point (°C)         | : | N/A      |
| Vapour pressure @ 25°(kPa) | : | N/A      |
| Specific gravity           | : | 1.8 (20) |
| Flash point (°C)           | : | >45      |
| Flammability limits (%)    | : | N/A      |



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Solubility in water : not miscible

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## 10. STABILITY AND REACTIVITY:

**Hazardous decomposition Products** : When exposed to high temperatures may produce carbon monoxide and/or carbon dioxide and oxides of nitrogen

**Hazardous Reactions** : Reaction with strong acids, oxidizing material and strong Bases possible

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## 11. TOXICOLOGICAL INFORMATION:

Potential Health Effects :  
Inhalation :  
Short term exposure : Toxic if inhaled  
Long term exposure : Central nervous system damage, lung cancer, bladder cancer, Nasal cancer

Skin Contact :  
Short term exposure : Irritation, sensitivity to sunlight, allergic reactions  
Long term exposure : Irritation, sensitivity to sunlight, allergic reactions, Central nervous system damage, skin cancer, scrotal cancer

Eye Contact :  
Short term exposure : Irritation, sensitivity to sunlight  
Long term exposure : Irritation, sensitivity to sunlight

Ingestion :  
Short term exposure : Harmful if swallowed, aspiration hazard  
Long term exposure : Heritable genetic damage, impaired fertility, harm to the unborn child, Blood cancers, liver cancers, stomach cancers

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## 12. ECOLOGICAL INFORMATION:

Ecology : Do not discharge into drains and sewers



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## 13. DISPOSAL CONSIDERATIONS:

Disposal : Absorb with sand or earth. Collect in plastic disposable bags  
Bury in landfill or mix separate product components in ration  
as supplied and not exceeding single pack size quantities, in  
suitable metal containers. Bury in landfill. In addition, please  
refer to the local regulations regarding disposal.

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## 14. TRANSPORT INFORMATION:

RID/ADR  
UN number : 3082  
IMDG Code  
ICAO/IATA : class 9 packing group III  
AND  
Other information : Environmentally hazardous substance, liquid n.o.s

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## 15. REGULATORY INFORMATION:

Symbol : T, N  
Risk phrase(s) : R23 Toxic by inhalation  
R45 May cause cancer  
R40 Limited evidence of a carcinogenic effect  
R46 May cause heritable genetic damage  
R51/53 Toxic to aquatic organisms, may cause long  
term adverse effects in the aquatic  
environment  
R60/61 May impair fertility and may cause harm to  
Unborn child  
R65 Harmful: may cause lung damage if  
swallowed  
Safety phrase(s) : S36/37/39 Wear suitable protective clothing, gloves and  
Eye/face protection  
S38 In case of insufficient ventilation, wear  
Suitable respiratory equipment  
S45 In case of accident or if you feel unwell, seek  
Medical advice immediately (show the label  
Where possible)



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|     |                                                                                        |
|-----|----------------------------------------------------------------------------------------|
| S53 | Avoid exposure – obtain special instructions<br>Before use                             |
| S60 | This material and its container must be<br>disposed of as hazardous waste              |
| S61 | Avoid release to the environment. Refer to<br>The special instruction safety datasheet |

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## 16. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from MATEX.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.



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## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

**Product Name** : MEGASEAL TPU PART B  
**HS CODE** : **32089000**  
**Application** : Elastomeric Pitch Polyurethane Joint Sealant  
**Manufacturer** : MATEX CONSTRUCTION CHEMICALS  
MANUFACTURING CO. L.L.C.  
**Address** : P.O. Box 29585  
**Telephone** : +971 4 3334140  
**Fax** : +971 4 3334115  
**Email** : [info@matex.ae](mailto:info@matex.ae)  
**Website** : [www.matex-global.com](http://www.matex-global.com)

## 2. HAZARDS IDENTIFICATION:

**Symbol** : Xn, Harmful  
**Risk Phrase (s)** : R20 Harmful by inhalation  
R42 May cause sensitization by inhalation  
**Safety Phrase (s)** : S23 Do no breathe gas/fumes/vapour/spray  
S38 In case of insufficient ventilation, wear suitable  
respiratory equipment  
S45 In case of accident or if you feel unwell, seek  
medical advice immediately (show the label where  
possible)  
S60 This material and its container must be disposed of  
as hazardous waste  
P4 Contains isocyanates  
U5 Do not allow ingress of moisture p risk pressure build up

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

| Ingredients               | % Composition | CAS No.    |
|---------------------------|---------------|------------|
| Polyisocyanate prepolymer | 100           | 26471-62-5 |



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## 4. FIRST AID MEASURES:

|            |   |                                                                                                                                                                                                                  |
|------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes       | : | Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Continue to rinse at least 15 minutes. Get medical attention immediately |
| Skin       | : | Remove contaminated clothes immediately. Wash affected area with plenty of water. Seek medical attention                                                                                                         |
| Inhalation | : | Remove affected person to fresh air. If symptoms persist obtain medical attention                                                                                                                                |
| Ingestion  | : | If swallowed drink water. Obtain medical attention                                                                                                                                                               |

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## 5. FIRE FIGHTING MEASURES:

|                                  |   |                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media     | : | Foam, carbon dioxide and dry powder. Water spray, fog Or mist                                                                                                                                                                                                                                                   |
| Special Fire Fighting Procedures | : | Keep run-off water out of sewers and water sources. Dike for water control. Noted: Use air supplied respirators to protect against gases/fumes. Move container from the fire area if it can be done without risk if risk of water pollution occurs, notify appropriate authorities. Keep up wind to avoid fumes |
| Unusual Fire & explosion hazards | : | Prolonged exposure to heat may lead to formation of gases.                                                                                                                                                                                                                                                      |
| Hazardous decomposition products | : | Fire or high temperature creates toxic gases/vapours/ fumes of carbon dioxide, carbon monoxide, hydrogen cyanide                                                                                                                                                                                                |

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## 6. ACCIDENTAL RELEASE MEASURES:

|                        |   |                                                                                                                                                                                                        |
|------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| After Spillage/leakage | : | Do not touch spilled material. Collect with absorbent, Non-combustible material into suitable containers. Shovel into dry containers. Cover and move the Containers. Flush the area with water. Do not |
|------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



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|                                  |   |                                                                                                                                           |
|----------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental Precautions</b> | : | contaminate water sources or sewer. Wash thoroughly after dealing with a spillage<br>Prevent entry into drains, sewers and water courses. |
|----------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------|

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## 7. HANDLING AND STORAGE:

|          |   |                                                                                                                                                                                                                                                                                                                                                                  |
|----------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage  | : | Keep away from heat, sparks, and open flame. Store at moderate temperatures in dry, well-ventilated area. Isocyanates react with water to liberate carbon dioxide. Any ingress of moisture into an isocyanate container, whether full or empty can lead to a pressure build up and subsequent explosion.                                                         |
| Handling | : | Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations. Do not use contact lenses. Avoid contact with water, alcohols, amines and other materials that may react with isocyanates. |

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

|                          |   |                                                                                                                                                       |
|--------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Exposure Limit           | : | MAK (DFG, 1997) Personal protective equipment                                                                                                         |
| Respiratory Protection   | : | Nasal respirator if product used in confined spaces                                                                                                   |
| Eye Protection           | : | Use safety goggles                                                                                                                                    |
| Skin Protection          | : | Impervious gloves                                                                                                                                     |
| Other Industrial Hygiene | : | Observe the usual precaution when handling chemicals<br>Wash hands before breaks and after finishing work.<br>Do not eat, drink or smoke at workplace |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

|                    |   |                   |
|--------------------|---|-------------------|
| Form               | : | liquid            |
| Colour             | : | clear, dark amber |
| Odour              | : | characteristics   |
| Boiling point (°C) | : | N/A               |
| Melting point (°C) | : | 130               |



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|                            |   |                            |
|----------------------------|---|----------------------------|
| Vapour pressure @ 25°(kPa) | : | N/A                        |
| Density                    | : | 1.0 – 1.1 (25)             |
| Flash point (°C)           | : | N/A                        |
| Flammability limits (%)    | : | N/A                        |
| Viscosity (°C)             | : | 10,000 – 15,000 mpa.s (25) |
| Solubility in water        | : | immiscible                 |

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## 10. STABILITY AND REACTIVITY:

|                                         |   |                                                                                                   |
|-----------------------------------------|---|---------------------------------------------------------------------------------------------------|
| <b>Hazardous decomposition products</b> | : | Toxic gases/vapours/fumes of carbon monoxide, oxides of nitrogen, hydrogen cyanide, nitrous gases |
| <b>Stability</b>                        | : | Normally stable. Avoid heat, sparks and flames                                                    |
| <b>Conditions to avoid</b>              | : | Avoid contact with water                                                                          |
| <b>Material to avoid</b>                | : | Amines, alcohols, glycols, water, steam water mixtures                                            |

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## 11. TOXICOLOGICAL INFORMATION:

|                         |   |                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Health Hazards, General | : | Preparation contains small volumes of isocyanate which may cause allergic reaction and irritation of respiratory system                                                                                                                                                                                                                                                               |
| Inhalation              | : | Harmful by inhalation. May cause sensitization by inhalation                                                                                                                                                                                                                                                                                                                          |
| Ingestion               | : | may cause discomfort if swallowed                                                                                                                                                                                                                                                                                                                                                     |
| Skin                    | : | Liquid may irritate skin                                                                                                                                                                                                                                                                                                                                                              |
| Eyes                    | : | Spray and vapour in the eyes may cause irritation and smarting                                                                                                                                                                                                                                                                                                                        |
| Health Warnings         | : | Inhalation. Pulmonarysensitizer. Recognized allergen                                                                                                                                                                                                                                                                                                                                  |
| Route of entry          | : | Inhalation                                                                                                                                                                                                                                                                                                                                                                            |
| Target organs           | : | Respiratory system, lungs                                                                                                                                                                                                                                                                                                                                                             |
| Medical Symptoms        | : | Eyes and mucous membranes. Irritation of eyes and mucous membranes<br>Respiratory system, coughing, chest tightness, feeling of chest pressure<br>Digestive system. May cause discomfort if swallowed                                                                                                                                                                                 |
| Medical Considerations  | : | Skin disorders and allergies. Chronic respiratory and obstructive airway diseases. Employees out to be examined by physician prior to work with diisocyanates. Allergic reactions may develop after inhalation of low concentrations, also several hours after exposure. Regular medical checks including lung function are recommended for long term and repeated use of isocyanates |



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## 12. ECOLOGICAL INFORMATION:

|                       |   |                                                                                                                                                          |
|-----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Hazards | : | Not regarded as dangerous for the environment.<br>Isocyanate reacts with water to form an insoluble polyurea which is chemically and biologically inert. |
|-----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|

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## 13. DISPOSAL CONSIDERATIONS:

|          |   |                                                                                                               |
|----------|---|---------------------------------------------------------------------------------------------------------------|
| Disposal | : | Dispose off in accordance with local authority Requirements. Do not allow runoff to sewer, waterway or ground |
|----------|---|---------------------------------------------------------------------------------------------------------------|

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## 14. TRANSPORT INFORMATION:

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR

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## 15. REGULATORY INFORMATION:

|                  |   |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symbol           | : | Xn, Harmful                                                                                                                                                                                                                                                                                                                                                                                                             |
| Risk phrase(s)   | : | R20 Harmful by inhalation<br>R42 May cause sensitization by inhalation                                                                                                                                                                                                                                                                                                                                                  |
| Safety phrase(s) | : | S23 Do not breathe gas/fumes/vapour/spray<br>S38 In case of insufficient ventilation, wear suitable respiratory equipment<br>S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)<br>S60 This material and its container must be disposed of as hazardous waste<br>P4 Contains isocyanates<br>U5 Do not allow ingress of moisture - risk of pressure build up |

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