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 Revision number: V1.2



SAFETY DATA SHEET

MPA.003 PEDESTAL ADHESIVE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Product Name: MPA.003 Pedestal Adhesive
Trade Names: TG1
Internal ID: CU-MFTG1-9.0-00-3 / SF-TG1-9.0-00-7

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

Identified Uses: General purpose pedestal adhesive (Access Flooring)
Uses advised against: Due to the nature of this product it should not be used for any purpose other than its identified use.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Star Uretech Ltd, Enterprise House, Hollin Bridge Street, Blackburn, Lancashire, UK, BB2 4AY
Telephone: +44 (0)1254 663444
Email: info@star-uretech.com
Website: www.star-uretech.com

1.4 Details of the supplier of the safety data sheet

Emergency Telephone Number: +44 (0)1254 663444 (Monday to Friday / 9:00am to 5:00pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards:	Not Classified
Human:	Resp. Sens. 1 - H334
Environmental:	Not Classified

2.2 Label elements

Contains: DIPHENYL METHANE DIISOCYANATE, ISOMERS AND HOMOLOGUES
Labelled In Accordance With (EC) No. 1272/2008

	No pictogram Required	No pictogram Required	No pictogram Required
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Signal word: DANGER

Hazard Statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statements:

P103 Read label before use.
 P261 Avoid breathing vapour/spray.
 P250 Do not subject to spraying.
 P342+311 If experiencing respiratory symptoms: Call a doctor or physician.
 P402+404 Store in a dry place. Store in original/closed tin.
 P501 Dispose of contents/container in accordance with national regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Diphenyl Methane Diisocyanate, Isomers and Homologues	<1%
CAS-No: 9016-87-9	Classification (EC 1272/2008)
Acute Tox. 4 - H332	Skin Sens. 1 - H317
Skin Irrit. 2 - H315	Carc. 2 - H351
Eye Irrit. 2 - H319	STOT SE 3 - H335
Resp. Sens. 1 - H334	STOT RE 2 - H373

Ingredient notes: These hazards refer to a base raw material of which trace quantities may be found in this product. Only the hazards detailed in (Section 2) are specific to this product.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation:	Move the exposed person to fresh air and keep warm and at rest.
Ingestion:	Rinse nose, mouth and throat with water. Seek medical attention immediately. Do not induce vomiting.
Eye contact:	Immediately flush with water, remove contact lenses and open eyes wide apart. Continue to rinse and seek medical attention.
Skin contact:	Remove contaminated clothing immediately and wash skin with soap and water.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	May cause an asthma-like shortness of breath.
Ingestion:	Due to the physical nature of this material it is unlikely that swallowing will occur. May cause discomfort if swallowed.
Eye contact:	Irritating and may cause redness and pain.
Skin contact:	Prolonged skin contact may cause redness and irritation.

4.3 Indication of any immediate medical attention and special treatment needed

This product can irritate the respiratory tract in sensitised persons. Treatment of acute irritation or bronchial constriction is primarily symptomatic.

SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Extinguish with foam, carbon dioxide or dry powder. In case of larger fires, water spray, foam, dry powder and carbon dioxide may be used.

5.2 Special hazards arising from the substance or mixture

Fires or high temperatures can create carbon monoxide (CO), carbon dioxide (CO₂) nitrous gases (NO_x) and trace levels of isocyanate vapour or hydrogen cyanide (HCN).

5.3 Advice for firefighters

Avoid breathing fire vapours. For larger fires: Use air-supplied respirators to protect against gases or fumes. Containers close to a fire should be removed or cooled with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

In case of spills beware of slippery floors and surfaces. Avoid contact with skin and eyes. Wear protective gloves and eye protection.

6.2 Environmental precautions

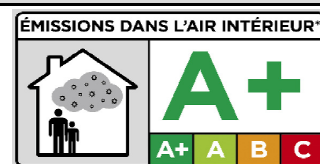
This product is of a high viscosity and is unlikely to spread far. The product will slowly cure when exposed to water or atmospheric moisture. Avoid ingress where blockages may occur.

6.3 Methods and material for containment and cleaning up

Allow to cure or mechanically remove excess product with damp absorbent material (e.g. sand, sawdust or a chemical binder based on calcium silicate). After approximately one hour transfer to a waste container that must remain unsealed. Keep damp in a safe, well ventilated place until waste material has gone solid and bound together.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling**

This product should not be sprayed. Whilst it is good practice to ensure adequate ventilation when using any chemicals, the volatility of the isocyanate used in this product (<0.00001 mbar or 2.5 million times less volatile than water) is such that it is not possible for the WEL to be reached even in sealed areas when using this product as intended. Atmospheric and clinical monitoring, during manufacture and installation have failed to detect the presence of any isocyanate.

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

Store in the original, unopened container at a temperature between 5°C and 25°C. Storing the container in a damp environment or temperatures below 5°C will reduce the shelf-life and performance of the product.

7.3 Specific end use(s)

This product is a general purpose moisture curing adhesive for fixing metal pedestals used in raised access flooring. The adhesive is used to fix access flooring pedestals to concrete substrates. Always read the products technical data sheet and method statement before use. The user should apply the product by dipping the base of the pedestal into the adhesive. This product must only be used by skilled/qualified installers. Do not spray.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

Ingredient Comments: Any person suffering from hypersensitivity of the respiratory tract (e.g. Those who suffer from asthma or who are prone to respiratory ailments) should not work with the product. Repeated exposure in already sensitized workers can result in severe asthma attacks, even at levels below accepted working limits.

8.2 Exposure controls**Protective Equipment:**

			
Hand Protection	Eye/Face Protection	Overalls	

Process conditions:	Under normal conditions this product will be used in relatively open areas with natural ventilation. As this product has a very low vapour pressure (<0.00001 mbar) the normal type of working environment will provide sufficient ventilation when the product is used as intended.
Engineering measures:	The supplier has carried out monitoring exercises on various polyisocyanates of this type. Results show that if they are handled at room temperature or lower and in the manner detailed within this document then it is highly unlikely that even 10% of the Working Exposure Limit could be reached.
Respiratory equipment:	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Hand protection:	Gloves of nitrile rubber, PVA or Viton are recommended.
Eye Protection:	Due to the method of application and high viscosity of the product, splashing is unlikely to occur however users should wear safety glasses, goggles or a face shield.
Other protection:	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures:	Wash promptly with soap & water if skin becomes contaminated.
Skin Protection:	Ensure bare skin is covered, for instance by overalls, to avoid any risk of skin contact as a result of splashes or spills.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Appearance:	Viscous liquid/Paste
Colour:	Grey
Odour:	Slight Odour
Boiling point/range:	>300 760 mm Hg
Melting Point (°C):	<5
Relative Density:	1.4 20°C
Vapour pressure:	<0.00001 mbar 25°C
Viscosity:	<50,000mPas @ 25°C
Flash Point:	>200 CC (Closed cup)
Auto Ignition (°C):	>500

9.2 Other Information

Volatility Description:	(<0.00001 mbar) 2.5 million times less volatile than water.
VOCs	None. This product contains no VOC's.

SECTION 10: STABILITY AND REACTIVITY**10.2 Chemical stability**

Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous Polymerisation - May polymerise over 200°C with the evolution of carbon dioxide gas and heat.

10.4 Conditions to avoid

This product will cure into a solid mass by reaction with atmospheric moisture. Avoid heat, flames and sources of ignition.

10.5 Incompatible materials

Materials To Avoid: Water / Moisture & Amines.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Toxic Dose 1 - LD 50:	>2000 mg/kg (oral rat)
Inhalation:	Irritating to respiratory system
Skin contact:	Irritating to skin.
Eye contact:	Irritating to eyes.
Health Warnings:	Information about inhalation of polymeric MDI aerosols is available, however this product is not designed to be spray applied and such aerosols will not be formed when the product is used as intended.
Medical Symptoms:	Prolonged contact with skin may cause irritant effects. Respiratory irritation, difficulty breathing, coughing, wheezing and shortness of breath.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Information on toxicological effects**

Ecotoxicity:	The product is not expected to be toxic to aquatic organisms.
Acute Fish Toxicity:	LC0 > 1000mg/l Danio rerio (zebra fish) 96h. Method :OECD Test Guideline 203.
EC 50, 48 Hrs, Daphnia, mg/l:	>1000
Degradability:	The product is not readily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

When disposing of the used containers, ensure that they are empty of as much product as possible. Leave the containers to allow the residual product to cure. Once the product is cured (set) it is no longer hazardous. Remove or permanently obscure the label and then the container can be disposed of as building waste.

General information: The condition of this product will determine the required method of disposal. Used containers with fully cured product remaining around the edges or bottom of the container should have the hazard label removed or obscured before disposal as general building waste. Uncured product can be allowed to cure and become inert however uncured (Liquid) product should be disposed of as hazardous waste.

SECTION 14: TRANSPORT INFORMATION**14.3 Transport hazard class(es)**

Transport Labels:	No transport warning sign required.
General:	Product not classified as hazardous under transport regulations

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety data sheet has been produced in accordance with regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended) and 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) (as amended).

SECTION 16: OTHER INFORMATION**Abbreviations and acronyms used in the safety data sheet:**

VOCs: Volatile Organic Compounds - WEL: Workplace Exposure Limit - MDI: Methylene Diphenyl Diisocyanate - SDS: Safety Data Sheet - GHS: Globally Harmonised System - COSHH: Control of Substances Hazardous to Health - PPE: Personal Protective Equipment - CLP: Classification, labelling and packaging (of chemical substances) -

General Information:

As part of an employers overall duty to carry out assessments in the work place the law requires employers to complete safety/risk assessment. This involves assessing the risks of using a substance and implementing any measures needed to control exposure to it. Most of the information that will be required to carry out the assessment will be found within this Safety Data Sheet. Other factors such as where the product will be used and the training level of those using the product will have to be determined by the relevant employer or assessor. If more than 5 people are employed, then as with other risk assessments, the assessment must be recorded and reviewed at suitable intervals. The Health and Safety Executive web site www.hse.gov.uk has a great deal of information on all aspects of health and safety including many free to download documents on the subjects. PLEASE NOTE :- This document is a Safety Data Sheet (SDS or MSDS) . It is not in itself an assessment. The information found in this Safety Data Sheet can be used when carrying out an assessment but it cannot provide all the information that will be required as this will be specific to each individual situation eg. limitations of the location where the product is to be used etc.

Information Sources:

www.hse.gov.uk - www.defra.gov.uk - www.isopa.org/isopa/ - www.star-uretech.com - www.echa.europa.eu/regulations/clp - <http://ec.europa.eu/DocsRoom/documents/11948/attachments/1/translations/en/renditions/native>

Revision Comments:

It should be noted that the full risk and hazard phrases detailed below explain the abbreviations used in Section 3 of the document, which lists ingredients used in the manufacture of this product. These do not represent the hazards associated with the use of this product. The hazard identification of this product is found in section 2 of this document and should be the basis of your risk management measures. This revision (10) is the final updated layout to conform fully with GHS(CLP) Regulations.

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	Jayne Rogers	Senior Chemist
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Hazard Statements In Full:

H315 Causes skin irritation. , H317 May cause an allergic skin reaction. , H319 Causes serious eye irritation. , H332 Harmful if inhaled. , H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. , H335 May cause respiratory irritation. , H351 Suspected of causing cancer. , H373 May cause damage to organs <<Organs>> through prolonged or repeated exposure.

Disclaimer: The information contained herein is accurate to the best of our knowledge. Star Uretech makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.