

## SAFETY DATA SHEET

### Amtico Universal 2 Part Adhesive Component B

UNIB-MS-20211220-07-EN

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name	Amtico Universal 2 Part Adhesive Component B
Product number	U2P-5
Synonyms; trade names	P-MDI, MDI
REACH registration number	01-2119457014-47-0000
UFI No.:	1WH5-F0KS-M006-4V7Q
CAS number	101-68-8
EU index number	615-005-00-9
EC number	202-966-0

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

Identified uses	Adhesive.
Uses advised against	No specific uses advised against are identified.

**1.3. Details of the supplier of the safety data sheet**

Supplier	The Amtico Company Ltd Kingfield Road Coventry CV6 5AA United Kingdom T: +44 (0) 2476 861 400 E: technical.support@amtico.com www.amtico.com
----------	---

**1.4. Emergency telephone number**

Emergency telephone	+44 (0) 24 7686 1400 Opening hours: Mon - Fri 08:30 - 16:45
---------------------	---

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification (EC 1272/2008)**

Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373
Environmental hazards	Not Classified
Human health	Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**2.2. Label elements**

EC number	202-966-0
-----------	-----------

## U2P Component B

### Hazard pictograms



### Signal word

Danger

### Hazard statements

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

### Precautionary statements

P260 Do not breathe vapour/ spray.  
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Supplemental label information

EUH204 Contains isocyanates. May produce an allergic reaction.  
 RCH004a Persons already sensitised to diisocyanates may develop allergic reactions when using this product.  
 RCH004b Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.  
 RCH004c This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

### Contains

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

### Supplementary precautionary statements

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P261 Avoid breathing vapour/ spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTRE/doctor if you feel unwell.  
 P314 Get medical advice/ attention if you feel unwell.  
 P321 Specific treatment (see medical advice on this label).  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.  
 P337+P313 If eye irritation persists: Get medical advice/ attention.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.

### 2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

## U2P Component B

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>DIPHENYLMETHANE-4,4'-DI-ISOCYANATE</b>		<b>60-100%</b>
CAS number: 101-68-8	EC number: 202-966-0	REACH registration number: 01-2119457014-47-0000

#### Classification

Acute Tox. 4 - H332  
 Skin Irrit. 2 - H315  
 Eye Irrit. 2 - H319  
 Resp. Sens. 1 - H334  
 Skin Sens. 1 - H317  
 Carc. 2 - H351  
 STOT SE 3 - H335  
 STOT RE 2 - H373

The full text for all hazard statements is displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Remove affected person from source of contamination.
<b>Inhalation</b>	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Ingestion</b>	DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Irritation of nose, throat and airway. Coughing, chest tightness, feeling of chest pressure.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Prolonged skin contact may cause redness and irritation.
<b>Eye contact</b>	Severe irritation, burning and tearing.

#### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
-----------------------------	---

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

## U2P Component B

<b>Specific hazards</b>	The product is non-combustible. Irritating gases or vapours. Not known.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
<b>5.3. Advice for firefighters</b>	
<b>Protective actions during firefighting</b>	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
<b>Special protective equipment for firefighters</b>	Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up** Absorb spillage with non-combustible, absorbent material. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses.

#### 6.4. Reference to other sections

**Reference to other sections** Wear protective clothing as described in Section 8 of this safety data sheet.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Avoid inhalation of vapours and spray/mists. Avoid contact with skin and eyes. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying is permitted only in closed systems, spray cabinets or spray boxes with adequate ventilation.

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

**Storage precautions** Store in closed original container at temperatures between 5°C and 25°C.

**Storage class** Chemical storage.

#### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

### SECTION 8: Exposure controls/Personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)

##### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m<sup>3</sup>(Sen)

Short-term exposure limit (15-minute): WEL 0.07 mg/m<sup>3</sup>(Sen)

WEL = Workplace Exposure Limit.

## U2P Component B

### Ingredient comments

WEL = Workplace Exposure Limits

#### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE (CAS: 101-68-8)

#### DNEL

Workers - Inhalation; Short term systemic effects: 0.1 mg/m<sup>3</sup>  
 Workers - Dermal; Short term local effects: 28.7 mg/cm<sup>2</sup>  
 Workers - Inhalation; Short term local effects: 0.1 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term systemic effects: 0.05 mg/m<sup>3</sup>  
 Workers - Inhalation; Long term local effects: 0.05 mg/m<sup>3</sup>  
 Consumer - Dermal; Short term systemic effects: 25 mg/kg bw/day  
 Workers - Dermal; Short term systemic effects: 50 mg/kg bw/day  
 Consumer - Oral; Short term systemic effects: 20 mg/kg bw/day  
 Consumer - Dermal; Short term local effects: 17.2 mg/cm<sup>2</sup>  
 Consumer - Inhalation; Short term local effects: 0.05 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term systemic effects: 0.025 mg/m<sup>3</sup>  
 Consumer - Inhalation; Long term local effects: 0.025 mg/m<sup>3</sup>  
 Consumer - Inhalation; Short term systemic effects: 0.05 mg/m<sup>3</sup>

#### PNEC

- marine water; 0.1 mg/l  
 - STP; 1 mg/l  
 - Fresh water; 1 mg/l  
 - Soil; 1 mg/kg

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

#### Eye/face protection

Wear chemical splash goggles.

#### Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. It should be noted that liquid may penetrate the gloves. Frequent changes are recommended. For exposure up to 8 hours, wear gloves made of the following material: Nitrile rubber.

#### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

#### Hygiene measures

Use engineering controls to reduce air contamination to permissible exposure level. Wash hands after handling. When using do not eat, drink or smoke.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: ABEK2-P3 Particulate filter, type P3.

#### Environmental exposure controls

Keep container tightly sealed when not in use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	Coloured liquid.
Colour	Brown.
Odour	Musty (mouldy).

## U2P Component B

<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point</b>	<10°C
<b>Initial boiling point and range</b>	330°C @ mbar
<b>Flash point</b>	>200°C Closed cup.
<b>Evaporation rate</b>	slow
<b>Evaporation factor</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	Not applicable.
<b>Other flammability</b>	Not available.
<b>Vapour pressure</b>	0.01 Pa @ °C
<b>Vapour density</b>	8.5
<b>Relative density</b>	1.24 @ 20°C
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Insoluble in water. Hardens in contact with water.
<b>Partition coefficient</b>	Not available.
<b>Auto-ignition temperature</b>	>600°C
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	90-130 mPa s @ 25°C
<b>Explosive properties</b>	Not available.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not available.
<b>Comments</b>	Information given is applicable to the product as supplied.

### 9.2. Other information

<b>Other information</b>	No information required.
<b>Refractive index</b>	Not available.
<b>Particle size</b>	Not available.
<b>Molecular weight</b>	Not available.
<b>Volatility</b>	Not available.
<b>Saturation concentration</b>	Not available.
<b>Critical temperature</b>	Not available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	The product will harden into a solid mass in contact with water and moisture.
-------------------	---

## U2P Component B

### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Not applicable. May polymerise.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid contact with water.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - inhalation

**ATE inhalation (vapours mg/l)** 11.0

#### Skin corrosion/irritation

**Animal data** Irritating.

#### Serious eye damage/irritation

**Serious eye damage/irritation** Moderately irritating.

#### Respiratory sensitisation

**Respiratory sensitisation** Sensitising.

#### Carcinogenicity

**Carcinogenicity** Suspected carcinogen based on limited evidence.

**Target organ for carcinogenicity**

No specific target organs known.

#### Reproductive toxicity

**Reproductive toxicity - development** This substance has no evidence of toxicity to reproduction.

#### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.

#### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

#### Inhalation

Irritating to respiratory system. May cause sensitisation by inhalation.

#### Ingestion

May cause stomach pain or vomiting.

#### Skin contact

Irritating to skin. May cause sensitisation by skin contact.

#### Eye contact

Irritation of eyes and mucous membranes.

**Acute and chronic health hazards**

May cause sensitisation by skin contact. The product contains small quantities of isocyanate. May cause respiratory allergy. May cause respiratory system irritation. May cause respiratory system irritation. Frequent inhalation of vapours may cause respiratory allergy.

## U2P Component B

<b>Route of exposure</b>	Inhalation Skin and/or eye contact
<b>Medical symptoms</b>	Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.
<b>Medical considerations</b>	Chronic respiratory and obstructive airway diseases.

### Toxicological information on ingredients.

#### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 10,000.0

Species Rat

ATE oral (mg/kg) 10,000.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 9,400.0

Species Rabbit

ATE dermal (mg/kg) 9,400.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 0.31

Species Rat

ATE inhalation (vapours mg/l) 11.0

##### Carcinogenicity

IARC carcinogenicity IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### **SECTION 12: Ecological information**

**Ecotoxicity** The product is not expected to be hazardous to the environment.

#### 12.1. Toxicity

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: > 1000 mg/l, Freshwater fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >500 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus

### Ecological information on ingredients.

#### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

##### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >1000 mg/l, Marinewater fish

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 24 hours: >1000 mg/l, Daphnia magna



## U2P Component B

### Chronic aquatic toxicity

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: >10 mg/l, Daphnia magna

### 12.2. Persistence and degradability

**Persistence and degradability** The product is not readily biodegradable.

**Stability (hydrolysis)** Reacts with water.

**Biological oxygen demand** < 10 g O<sub>2</sub>/g substance

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product does not contain any substances expected to be bioaccumulating.

**Partition coefficient** Not available.

### Ecological information on ingredients.

#### DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

**Partition coefficient** log Pow: 4.51

### 12.4. Mobility in soil

**Mobility** The product is non-volatile.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## SECTION 14: Transport information

**General** Wear protective clothing as described in Section 8 of this safety data sheet.

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

#### **Transport labels**

No transport warning sign required.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

## U2P Component B

### Environmentally hazardous substance/marine pollutant

No.

#### 14.6. Special precautions for user

Not applicable.

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

### SECTION 15: Regulatory information

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

<b>National regulations</b>	Health and Safety at Work etc. Act 1974 (as amended).
<b>EU legislation</b>	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).
<b>Guidance</b>	Isocyanates: Health hazards and precautionary measures EH16.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Issued by</b>	Compliance
<b>Revision date</b>	13/05/2021
<b>Revision</b>	20
<b>Supersedes date</b>	06/01/2021
<b>SDS number</b>	20280
<b>Hazard statements in full</b>	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 through prolonged or repeated exposure.
<b>Store Between</b>	Store Between 5'c - 25'c
<b>Contains isocyanate</b>	NO

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.