



SAFETY DATA SHEET

TIMBOND X600 PART B

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

1.1 Product identifier

Product name	TIMBOND X600 PART B
Product number	TIMBOND X600 PART B,FP-000504,FP-000505,FP-001792
Synonyms; trade names	P-MDI,MDI
REACH registration number	01-2119457014-47-0000
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	Adkwik Limited Unit F, Dales Manor Business Park Grove Road Sawston, CB223TJ E: sales@adkwik.co.uk T: 01223 412373
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1.4 Emergency telephone number

Emergency telephone	01223 412373 (NOT 24HRS)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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
Classification (67/548/EEC or 1999/45/EC)	Xn;R20,R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38.
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
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Pictogram



Signal word

Danger

Hazard statements

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.

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.

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 CENTER/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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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

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	Classification (67/548/EEC or 1999/45/EC) Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43
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The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Remove affected person from source of contamination.
Inhalation	Move affected person to fresh air at once. Get medical attention if any discomfort continues.
Ingestion	DO NOT induce vomiting. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	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

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

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Specific hazards	The product is non-combustible. Irritating gases or vapours. Not known.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

5.3 Advice for firefighters

Protective actions during firefighting	Containers close to fire should be removed or cooled with water. Do not allow water to contact any leaked material.
Special, protective equipment for firefighters	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.
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6.2 Environmental precautions

Environmental precautions	Do not discharge into drains or watercourses or onto the ground.
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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.
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6.4 Reference to other sections

Reference to other sections	Wear protective clothing as described in Section 8 of this safety data sheet.
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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.
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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.
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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 ³ (Sen) Short-term exposure limit (15-minute): WEL 0.07 mg/m ³ (Sen)
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m ³ (Sen) Short-term exposure limit (15-minute): WEL 0.07 mg/m ³ (Sen) WEL = Workplace Exposure Limit
Ingredient comments	WEL = Workplace Exposure Limits

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

Comments	Information given is applicable to the product as supplied.
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9.2 Other information

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

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactivity	The product will harden into a solid mass in contact with water and moisture.
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10.2 Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3 Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable. May polymerise.
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10.4 Conditions to avoid

Conditions to avoid	Avoid contact with water.
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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.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

~~Acute toxicity~~ ~~Inhalation~~

ATE inhalation (gases ppm)	4500.0
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ATE inhalation (vapours mg/l)	11.0
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ATE inhalation (dusts/mists mg/l)	1.5
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Skin corrosion/irritation

Animal data	Irritating.
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Serious eye damage/irritation

Serious eye damage/irritation	Moderately irritating.
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Respiratory sensitisation

Respiratory sensitisation	Sensitising.
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Carcinogenicity

Carcinogenicity	Suspected carcinogen based on limited evidence.
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Target organ for carcinogenicity	No specific target organs known.
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Reproductive toxicity

Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Morphological changes that are potentially reversible but provide clear evidence of marked organ dysfunction.
<u>Aspiration hazard</u>	
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.
Route of entry	Inhalation Skin and/or eye contact
Medical symptoms	Irritation of eyes and mucous membranes. Coughing, chest tightness, feeling of chest pressure.
Medical considerations	Chronic respiratory and obstructive airway diseases.

SECTION 12: Ecological Information

Ecotoxicity	The product is not expected to be hazardous to the environment.
<u>12.1 Toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours:> 1000 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours, 72 hours: ~ 1640 mg/l, Scenedesmus subspicatus
<u>12.2 Persistence and degradability</u>	
Persistence and degradability	The product is not readily biodegradable.
Stability (hydrolysis)	Reacts with water.
Biological oxygen demand	< 10 g O ₂ /g substance
<u>12.3 Bioaccumulative potential</u>	
Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Partition coefficient	Not available.
<u>12.4 Mobility in soil</u>	
Mobility	The product is non-volatile.
<u>12.5 Results of PBT and vPvB assessment</u>	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
<u>12.6 Other adverse effects</u>	
Other adverse effects	Not applicable.

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.
General	070208

SECTION 14: Transport information

14.1 UN number

Not applicable.
UN No. (IMDG)
UN No. (ICAO)

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

ADR/RID class
ADR/RID subsidiary risk ADR/RID label
IMDG class
IMDG subsidiary risk ICAO class/division ICAO subsidiary risk
Transport labels

14.4 Packing group

Not applicable.
ADR/RID packing group
IMDG packing group
ICAO packing group

14.5 Environmental hazards

Environmentally hazardous
substance/marine pollutant

No

14.6 Special precautions for user

Not applicable.
EmS
Emergency Action Code
Hazard Identification Number
(ADR/RID)

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

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

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	Compliance
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Revision date	01/06/2015
Revision	20
SDS number	20280
Risk phrases in full	<p>R20 Harmful by inhalation.</p> <p>R36/37/38 Irritating to eyes, respiratory system and skin.</p> <p>R40 Limited evidence of a carcinogenic effect.</p> <p>R42/43 May cause sensitisation by inhalation and skin contact.</p> <p>R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.</p>
Hazard statements in full	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
Store Between	Store Between 5°C – 25°C
Contains SVHC	NO