

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **MASTERTOP P 660 (PART B)**
Other name: -
Manufacturer's product code: 2050500157002_
Recommended use: Part B of two-component, solvent free, polyurethane primer.
Company: BASF Construction Chemicals Australia Pty Ltd.
ABN: 46 000 450 288
Address: 11 Stanton Road,
Seven Hills, NSW, 2147
Australia
Telephone number: +61 2 8811 4200
Facsimile: +61 2 8811 3299
Company: BASF Construction Chemicals New Zealand Ltd.
Address: 45 William Pickering Drive,
Albany, Auckland,
New Zealand
Telephone number: +64 9 414 7233
Facsimile: +64 9 414 7244
Emergency telephone number: 0417 658 263

2. HAZARDS IDENTIFICATION

Hazard classification: Hazardous according to criteria of NOHSC.
Hazard designation: Xn; Harmful, Xi; Irritant
Risk phrase(s): R42/43, R20, R36/37/38
Safety phrase(s): S2, S35, S51, S36/37, S46, S64, S63, S45, S26

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS

Chemical Name	CAS Number	Proportion
Diphenylmethane diisocyanate: isomers and homologues	9016-87-9	50 - 100%

4. FIRST AID MEASURES

Inhalation: Take the casualty to fresh air and keep warm. Keep at rest. If breathing is irregular/no breathing give artificial respiration. If unconscious lay casualty down in lateral position and seek medical attention.

Eyes: Remove contact lenses and keep eyelids open. Flush with plenty of water for 15 minutes. Seek immediate medical attention.

Skin: Immediately remove all contaminated clothing. Wash contacted area thoroughly with soap and plenty of water. Do NOT use solvents or thinners. If irritation persists, seek medical attention.

Ingestion: Do NOT induce vomiting. Wash mouth with water and seek medical attention immediately.

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5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Alcohol resistant foam, CO ₂ , powders, water spray.
Unsuitable extinguishing media:	Water jet
Hazards from combustion products:	Fire will produce dense black smoke. Exposure to decomposition products may cause health hazard. During fires carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide may be given off.
Precautions and equipment for fire fighters:	Appropriate breathing apparatus may be required.
Additional information:	Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.
Methods for clean up / collecting:	Contain and collect spillage with non-combustible absorbent materials, eg. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Subsequently put in the waste container. Do not seal (CO ₂ may be given off).
Environmental precautions:	Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE

<u>Information for safe handling:</u>	Provide for fresh air ventilation. Do not inhale the vapour. Avoid contact with skin and eyes. Do not eat or drink during work – no smoking. Comply with the health and safety at work laws.
<u>Information about protection against explosions and fires:</u>	No particular measures required.
<u>Requirements to be met by storerooms and containers:</u>	Containers should be kept dry and sealed. Containers that are opened must be carefully resealed and kept upright to prevent leakage.
<u>Information about separation of incompatible products:</u>	Keep away from oxidising agents, from strongly alkaline and strongly acid materials.
<u>Further information about storage conditions:</u>	Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Containers should be kept dry and sealed. Avoid heating over 50°C. Avoid cooling to under 0°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapours or particles below OEL (Occupational Exposure Limit), suitable respiratory
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protection must be worn. Allergics and persons who have problems with the respiration tract are not recommended to work with this product.

Exposure standards:	4,4'-Methylenediphenyl diisocyanate; CAS No.: 101-68-8
Specification:	TRGS 900 – maximum limit in the atmosphere at the workplace (D)
Value:	0.05 mg/m ³
Category:	=1=
Version date:	01/05/2004
Specification:	TRGS 903 – biological workplace tolerance values (D)
Parameter:	4,4'-Diaminodiphenylmethane/urine/end of exposure or shift
Value:	10 µg/g Kreatinin
Version date:	31/03/2004

Personal protective equipment

Respiratory protection:	By spraying: air fed respirator. By other operations than spraying: in well-ventilated areas, air fed respirators could be replaced by a combination of charcoal filter and particulate filter mask.
Hand protection:	After washing hands replace lost skin fat by fat containing skin creams.
Glove type:	Nitrile rubber.
Eye protection:	Use safety glasses.
Clothing:	Light protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Dark brown liquid with musty odour.
Boiling point (°C):	Not available
Melting point (°C):	Not available
Vapour pressure (@ 50°C):	Not available
Density (@ 20°C):	ca. 1.24 g/cm ³
Flash point (°C):	ca. 220 DIN 53213
Ignition temperature (°C):	> 400
Viscosity (@ 23°C):	ca. 90 mPa.s

10. STABILITY AND REACTIVITY

Hazard of use/storage:	Stable under recommended storage and handling conditions (see section 7).
Materials to avoid:	Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reaction with amines and alcohols. In contact with water (moisture) CO ₂ is formed which leads to an excess pressure in closed containers.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, smoke, and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

Experience on practice

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and /or sensitisation of the respiratory system

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leading to an asthmatic condition, wheeziness and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below OEL (Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma).

12. ECOLOGICAL INFORMATION

Ecology: Do not empty into waters or drains. Product is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO₂.

13. DISPOSAL CONSIDERATIONS

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

Product

Recommendation: Residue can be made harmless by reacting with a mixture of isopropanol, ammonia and water. Reaction promoted by detergents and water-soluble solvent.

14. TRANSPORT INFORMATION

UN number: None allocated
Dangerous goods class: None allocated
Subsidiary risk: None allocated
EPG card: None allocated
Shipping name: None allocated
Packaging group: None allocated
Poisons schedule: None allocated
Hazchem code: None allocated

15. REGULATORY INFORMATION

Hazard designation: Xn; Harmful
Risk phrase(s): R 42/43 May cause sensitisation by inhalation and skin contact
R 20 Harmful by inhalation
R 36/37/38 Irritating to eyes, respiratory system and skin
Safety phrase(s): S 2 Keep out of reach of children
S 35 This material and its container must be disposed of in a safe way
S 51 Use only in well ventilated areas
S 36/37 Wear suitable protective clothing and gloves
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 64 If swallowed, rinse mouth with water (only if the person is conscious)
S 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest

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| S 45 | In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) |
| S 26 | In case of contact with eyes rinse immediately with plenty of water and seek medical advice. |

16. OTHER INFORMATION

Reason for issue: Change of company name.

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this MSDS is as accurate and up-to-date as possible. No warranty expressed or implied is made as to its accuracy, reliability or completeness.