

MATERIAL SAFETY DATA SHEET

According to NOHSC: 2011 (2003) and HSNO CoP 8-1 (September 2006)

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<u>Product name:</u>	CONIPUR WC 880, COMP B	
<u>Other name:</u>	None allocated	
<u>Recommended use:</u>	Part B of a two-component, solvent free polyurethane membrane.	
<u>Supplier:</u>	BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288	BASF New Zealand Ltd.
<u>Address:</u>	11 Stanton Road, Seven Hills, NSW, 2147 Australia	45 William Pickering Drive, Albany, Auckland, New Zealand
<u>Telephone number:</u>	+61 2 8811 4200	+64 9 414 7233
<u>Facsimile:</u>	+61 2 8811 3299	+64 9 414 7244
<u>Emergency telephone number:</u>	+61 417 658 263	

2. HAZARDS IDENTIFICATION

<u>Hazard classification:</u>	HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS. Non dangerous goods for transport according to the ADG code. Hazardous according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001	
<u>Hazard Designation:</u>	Xn Harmful Xi Irritant May cause sensitisation by inhalation and skin contact. Harmful by inhalation. Irritating to eyes, respiratory system and skin	
<u>HSNO Classification</u>	6.1D	Acutely toxic (inhalation)
	6.3A	Irritating to the skin
	6.4A	Irritating to the eyes
	6.5A	Respiratory sensitiser
	6.5B	Contact sensitiser (dermal)
	6.9	Irritating to the respiratory system
<u>Risk phrase(s):</u>	R20	Harmful by inhalation.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R42/43	May cause sensitisation by inhalation and skin contact.
<u>Safety phrase(s):</u>	S2	Keep out of reach of children.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S35	This material and its container must be disposed of in a safe way.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
	S46	If swallowed, seek medical advice immediately and show this container or label.
	S51	Use only in well ventilated areas.
	S63	In case of accident by inhalation, remove casualty to fresh air and keep at rest.
	S64	If swallowed, rinse mouth with plenty of water (only if the person is conscious)

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3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
Diphenylmethane-diisocyanate, isomers and homologues	9016-87-9	> 50 %
Non hazardous ingredients		To 100%

4. FIRST AID MEASURES

<u>Inhalation:</u>	Take the casualty into the fresh air and keep warm. Keep at rest. If breathing is difficult, give oxygen. Seek medical attention immediately.
<u>Eyes:</u>	While holding eyes open, gently flood with plenty of fresh water for 15 minutes. Seek medical attention. Skilled personnel should only undertake removal of contact lenses after an eye injury.
<u>Skin:</u>	Immediately remove all contaminated clothing. Wash contacted area thoroughly with soap and plenty of water and rinse. Do NOT use solvents or thinners. Seek medical attention in the event of irritation.
<u>Ingestion:</u>	Not a normal route of injury. Contact a doctor immediately. Do NOT induce vomiting. Wash mouth with water and seek medical attention immediately.

5. FIRE FIGHTING MEASURES

<u>Suitable extinguishing media:</u>	Alcohol resistant foam, CO ₂ , Dry Chemical and Water Spray. Do not use Water Jet.
<u>Hazards from combustion products:</u>	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. During a fire, carbon monoxide, nitrogen oxide, isocyanate vapours and traces of hydrogen cyanide may be given off.
<u>Precautions/equipment for fire fighters:</u>	Appropriate breathing apparatus may be required. Cool endangered containers with water in case of fire. Do not allow extinguishing water into the sewage system.
<u>Hazchem code:</u>	None allocated

6. ACCIDENTAL RELEASE MEASURES

<u>Methods and materials for containment and clean up:</u>	Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Small or major spills should be adsorbed with dry, inert filler (e. vermiculite, soil or sand), which can then be shovelled into appropriately labelled drums for disposal according to local regulations (see Section 13). Do not seal drums as carbon dioxide may be given off.
<u>Environmental precautions:</u>	Do not allow to enter into drains, sewers or waterways. If the product contaminates lakes, rivers or sewage system, inform appropriate authorities in accordance with local regulations.

7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Provide for fresh air ventilation. Do not inhale the vapour. Avoid contact with skin and eyes. Do not eat, drink or smoke while working with this material or while working in the general area during application. Wash hands thoroughly before eating, drinking or smoking. Use a barrier cream before and after working with this product. Comply with all health and safety at work laws.
<u>Conditions for safe storage:</u>	Store in a cool, dry and well ventilated area. Containers should be kept dry and sealed. Store under cover and away from direct sunlight, heat and moisture. In contact with moisture, carbon dioxide (CO ₂) is formed which leads to excess pressure in closed

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containers. Containers that are opened must be carefully resealed and kept upright to prevent leakage. Store away from strong oxidising agents, alcohols, strongly alkaline and strongly acidic materials. Exothermic reaction with amines and alcohol. Store at 5 - 35°C. Avoid long-term exposure to elevated temperature (> 50°C). Avoid cooling to under 0°C. Keep out of reach of children.

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 particles below the OEL (Occupational Exposure Limit), suitable respiratory protection must be worn. Sensitised persons are not recommended to work with this product.

Exposure Standards Isocyanates, all (Sensitiser)
ES-TWA: 0.2 mg/m³
ES STEL: 0.7 mg/m³
NZ WES TWA: 0.2 mg/m³
NZ WES STEL: 0.7 mg/m³
Diphenylmethane-Diisocyanate, Isomers And Homologues CAS No.: 9016-87-9
Specification: threshold limit value (GB)
Value: 0.02 mg/m³ / 8 hr
Remarks MEL / TWA
Version Date:
Specification: threshold limit value (GB)
Value: 0.07 mg/m³ / 15 min
Remarks MEL / STEL
Version Date:
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/m³
Category: 1/=2=(I)
Version Date: 01.01.2006
Specification: TRGS 903 – biological maximum limits (D)
Parameter: 4,4'-Diaminodiphenylmethane / urine / end of exposure or shift
Value: 10 µg/g Kreatinin
Version Date: 31.03.2004

Personal Protective Equipment (PPE):

Respiratory protection: If spraying: air supplied respirator. Other operations than spraying: If workplace is well ventilated, air supplied respirators could be replaced by a combination of charcoal filter and particulate filter mask. Refer to specialist mask supplier.

Glove type (AS2161): Butyl rubber gauntlets (>= 0.5 mm for >= 480 min). When using other gloves with a lower endurance, change them more often.

Eye protection: Safety goggles, safety glasses with side-shields, face shield.

Clothing: Overalls or similar light protective clothing.

Other: Use barrier creams to protect skin from contact with the material. Always wash hands before smoking, eating, drinking or using the toilet and after finishing work. Observe the usual precautions when handling chemicals.

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9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance:</u>	Dark brown liquid
<u>Odour:</u>	musty, earthy odour
<u>pH:</u>	Not available
<u>Vapour pressure:</u>	0.0001 hPa (50°C)
<u>Solubility in water:</u>	Not available
<u>Specific gravity:</u>	approx. 1.25 g/cm ³ (20°C)
<u>Melting point:</u>	Not available
<u>Flash point:</u>	approx 220°C (DIN 53213)
<u>Ignition temperature:</u>	> 400°C
<u>Decomposition point/range:</u>	approx. 260°C (101300 Pa)
<u>Viscosity:</u>	approx. 100 mPa.s (20°C)

10. STABILITY AND REACTIVITY

<u>Chemical stability:</u>	Normally stable when stored in original sealed containers in cool dry conditions. Not sensitive to mechanical impact.
<u>Incompatible materials:</u>	Avoid contact with oxidising agents, strongly alkaline and strongly acid materials. Exothermic reaction with amines and alcohol. In contact with moisture, carbon dioxide (CO ₂) is formed which leads to excess pressure in closed containers.
<u>Hazardous decomposition products:</u>	May evolve toxic gases if heated to decomposition. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide; carbon dioxide; smoke and oxides of nitrogen.
<u>Hazardous reactions:</u>	Avoid contact with oxidising agents, strongly alkaline and strongly acid materials. Exothermic reaction with amines and alcohol. In contact with moisture, carbon dioxide (CO ₂) is formed which leads to excess pressure in closed containers.

11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary:</u>	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 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 the OEL (Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions are possible (breathing problems, coughs, asthma). The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within the General Directive on Preparations (1999/45/EC).
<u>Inhalation:</u>	The vapour is likely to be irritating to the respiratory system.
<u>Eyes:</u>	Eye contact may cause irritation.
<u>Skin contact:</u>	Mild skin irritation and redness from prolonged contact.
<u>Ingestion:</u>	The product is harmful by ingestion.
<u>Toxicity Data:</u>	Not available

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12. ECOLOGICAL INFORMATION

Ecotoxicity: Do not discharge into sewers or drains. The material is converted in connection with water, into a solid, insoluble and inert polyurea liberating CO₂.

13. DISPOSAL CONSIDERATIONS

Disposal method and containers: 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. In accordance with local official regulations. Pass on to an appropriate incinerating plant or depository or recycling facility. Residues can be made harmless by reacting with a mixture of isopropanol, ammonia and water. Reaction is promoted by detergents and water-soluble solvent. 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.

Special precautions (landfill/incineration): None known

14. TRANSPORT INFORMATION

UN number: None allocated

UN proper shipping name: None allocated

Dangerous goods class: None allocated

Subsidiary risk: None allocated

Packing group: None allocated

Hazchem code: None allocated

15. REGULATORY INFORMATION

NICNAS / AICS: All components are listed

Poisons Schedule: Not Scheduled

HSNO Classifications: 6.1D, 6.3A, 6.4A, 6.5A, 6.5B, 6.9

ERMA Group Standard: HSR002544

ERMA / NZIoC: All components are listed

Tracking: Not required

Approved Handler: Not required

16. OTHER INFORMATION

Reason for issue: Update to combined Australia and New Zealand MSDS.

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.