

# 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>	<b>CONIPUR M 860 PART B</b>	
<u>Other name:</u>	None allocated	
<u>Recommended use:</u>	Part B of a two component, solvent free, trafficable polyurethane waterproof membrane.	
<u>Supplier:</u>	BASF Construction Chemicals Australia Pty Ltd. ABN 46 000 450 288	BASF Construction Chemicals 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 (0)417 658 263	

## 2. HAZARDS IDENTIFICATION

<u>Hazard classification:</u>	HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS Hazardous substance according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001 and NOHSC Non Dangerous goods for transport according to the ADG code	
<u>Hazard Designation:</u>	May cause sensitisation by inhalation or skin contact. Harmful to aquatic organisms, may cause long term effects in the aquatic environment. Harmful by inhalation. Xn: Harmful;	
<u>HSNO Classification</u>	6.3A	Irritating to the skin
	6.4A	Irritating to the eye
	6.5B	Contact sensitiser (dermal)
	9.1B	Toxic to aquatic life with long lasting effects
<u>Risk phrase(s):</u>	R10	Flammable
	R20	Harmful by inhalation
	R42/43	May cause sensitisation by inhalation and skin contact.
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<u>Safety phrase(s):</u>	S2	Keep out of the reach of children
	S35	This material and its container must be disposed of in a safe way.
	S37	Wear suitable gloves
	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.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
	S63	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
	S91	Contains isocyanates. See information provided by the manufacturer.

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Characterisation:** Prepolymer on the basis of isophorone diisocyanate with monomeric and polymeric constituents

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion</u>
3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE (T; R23 N; R51/53 R42/43 Xi; R36/37/38)	4098-71-9	0.5 - 2.5 %
AROMATIC HYDROCARBON (R10 N; R51/53 Xn; R20 Xn; R65)	64742-95-6	0.5 - 2.5 %
1,2,4-TRIMETHYLBENZENE (R10 N; R51/53 Xn; R20 Xi; R36/37/38)	95-63-6	0.5 - 2.5 %
PROPYLBENZENE (R10 N; R51/53 Xn; R65 Xi; R37)	103-65-1	0.1 - 0.5 %
MESITYLENE (R10 N; R51/53 Xi; R37)	108-67-8	0.1 - 0.5 %
Non hazardous ingredients	-	to 100%

## 4. FIRST AID MEASURES

<u>Inhalation:</u>	Sensitiser. Hazardous. Use in well ventilated areas. If inhalation does occur, remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration. Seek medical attention.
<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>	Sensitiser. Remove contaminated clothing. Remove excess from skin mechanically. Wash contacted areas thoroughly with soap and water. If irritation develops seek medical attention. Wash contaminated clothing before re-use.
<u>Ingestion:</u>	Not a normal route of injury. Do not induce vomiting; give large quantities of water; get immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquids into lungs. Do NOT give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

<u>Suitable extinguishing media:</u>	As for surrounding fire.
<u>Hazards from combustion products:</u>	Not normally combustible. Possible release of CO <sub>2</sub> above 600°C.
<u>Precautions/equipment for fire fighters:</u>	As for surrounding fire.
<u>Hazchem code:</u>	None allocated.

## 6. ACCIDENTAL RELEASE MEASURES

<u>Methods and materials for containment and clean up:</u>	Spills should be collected and removed mechanically. Remainder can be contained by absorbing with dry inert filler (vermiculite, sand or soil), which can then be shovelled into appropriately labelled drums. Disposal should be effected by an approved waste disposal organisation according to local regulations.
<u>Environmental precautions:</u>	Do not allow to enter into drains, sewers or waterways.

## 7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Wear personal protective equipment (PPE) as per Section 8. Provide for good ventilation. Avoid inhalation of dust. Avoid skin contact.
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Conditions for safe storage:

Keep containers tightly closed; store under cool dry conditions. Keep out of reach of children.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Additional information about engineering measures

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 particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Allergics and persons who have problems with the respiration tract are not recommended to work with this product.

### Components with critical values that require monitoring at the workplace (exposure limits)

AROMS.-RICH HYDROCARBON-MIXTURE (GERMAN TRGS 900, GROUP 3)

Specification: TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value : 20 ppm / 100 mg/m<sup>3</sup>

Category : 4

Version date : 01.09.2003

3-ISOCYANATOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYL ISOCYANATE; CAS-No. : 4098-71-9

Specification: TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value: 0.005 ppm / 0.046 mg/m<sup>3</sup>

Category: 1/2=(I)

Version date: 01.01.2006

1,2,4-TRIMETHYLBENZENE; CAS-No. : 95-63-6

Specification: TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value: 20 ppm / 100 mg/m<sup>3</sup>

Category: 2(II)

Remarks: Y

Version date: 01.01.2006

MESITYLENE; CAS-No.: 108-67-8

Specification: TRGS 900 - maximum limit in the atmosphere at the workplace ( D )

Value: 20 ppm / 100 mg/m<sup>3</sup>

Category: 2(II)

Remarks: Y

Version date: 01.01.2006

### Personal Protective Equipment (PPE):

Respiratory protection: Breathing protection equipment required in inadequately ventilated places and during spraying.

Glove type (AS2161): Recommended; butyl rubber  $\geq 0.5\text{mm}$   $\geq 480$  min. Other gloves of similar endurance may be used (consult manufacturer/supplier) or gloves of lower endurance may also be used but must be changed more often. After washing hands replace lost skin fat by fat containing creams.

Eye protection: Chemical worker's goggles or well fitting safety glasses or full face shield.

Clothing: No special clothing required but overalls or other suitable industrial clothing which provides full skin coverage are suggested as a general precaution, especially where heavy contamination is likely.

Other: Use barrier creams to protect skin from contact with the material. Do not eat drink or smoke while working 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>	Light yellowish liquid.
<u>Odour:</u>	Pungent characteristics.
<u>Specific gravity:</u>	ca. 1.06 g/cm <sup>3</sup> (20 °C)
<u>Viscosity:</u>	6600 mPa.s (20 °C)
<u>Solubility in water:</u>	Converted in connection with water to a solid, insoluble, inert polyurea, liberating CO <sub>2</sub> .
<u>Explosion Limit:</u>	Not available
<u>Flash point:</u>	> 65 °C DIN 53213

## 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 /Hazardous reactions:</u>	Keep away from oxidizing agents, strongly alkaline and strongly acid materials, amines and alcohols in order to avoid exothermic reactions. In contact with water (moisture) CO <sub>2</sub> is formed which can lead to an excess pressure in closed containers.
<u>Hazardous decomposition products:</u>	When exposed to high temperatures, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke and oxides of nitrogen.

## 11. TOXICOLOGICAL INFORMATION

<u>Health Hazard Summary Experience on Practice:</u>	Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a 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 possible (breathing problems, coughs, asthma).
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## 12. ECOLOGICAL INFORMATION

<u>Ecotoxicological effects:</u>	Do not discharge into drains, sewers or waterways. Is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO <sub>2</sub> .																																				
<u>Aquatic Toxicity:</u>	<table><tr><td>Specification:</td><td>Toxicity to daphnia (1,2,4- TRIMETHYLBENZENE; CAS No. 95-63-6)</td></tr><tr><td>Parameters:</td><td>EC50 Species: Daphnia magna Straus 1820</td></tr><tr><td>Dosage / Time:</td><td>3600 µg/l 48 Hr</td></tr><tr><td>Specification:</td><td>Toxicity to fish (PROPYLBENZENE; CAS No. 103-65-1)</td></tr><tr><td>Parameters:</td><td>LC50 Species: Trout</td></tr><tr><td>Dosage / Time:</td><td>1550 µg/l 96 Hr</td></tr><tr><td>Specification:</td><td>Toxicity to fish (MESITYLENE; CAS No. 108-67-8)</td></tr><tr><td>Parameters:</td><td>LC50 Species: Carassius auratus</td></tr><tr><td>Dosage / Time:</td><td>20.6 mg/l 24 Hr</td></tr><tr><td>Specification:</td><td>Toxicity to daphnia (MESITYLENE; CAS No. 108-67-8)</td></tr><tr><td>Parameters:</td><td>EC50 Species: Daphnia magna Straus 1820</td></tr><tr><td>Dosage / Time:</td><td>50 mg/l 24 Hr</td></tr><tr><td>Specification:</td><td>Toxicity to daphnia (PROPYLBENZENE; CAS No. 103-65-1)</td></tr><tr><td>Parameters:</td><td>EC50 Species: Daphnia magna Straus 1820</td></tr><tr><td>Dosage / Time:</td><td>2000 µg/l 24 Hr</td></tr><tr><td>Specification:</td><td>Toxicity to daphnia (MESITYLENE; CAS No. 108-67-8)</td></tr><tr><td>Parameters:</td><td>NOEC Species: Daphnia magna Straus 1820</td></tr><tr><td>Dosage / Time:</td><td>400 µg/l 504 Hr</td></tr></table>	Specification:	Toxicity to daphnia (1,2,4- TRIMETHYLBENZENE; CAS No. 95-63-6)	Parameters:	EC50 Species: Daphnia magna Straus 1820	Dosage / Time:	3600 µg/l 48 Hr	Specification:	Toxicity to fish (PROPYLBENZENE; CAS No. 103-65-1)	Parameters:	LC50 Species: Trout	Dosage / Time:	1550 µg/l 96 Hr	Specification:	Toxicity to fish (MESITYLENE; CAS No. 108-67-8)	Parameters:	LC50 Species: Carassius auratus	Dosage / Time:	20.6 mg/l 24 Hr	Specification:	Toxicity to daphnia (MESITYLENE; CAS No. 108-67-8)	Parameters:	EC50 Species: Daphnia magna Straus 1820	Dosage / Time:	50 mg/l 24 Hr	Specification:	Toxicity to daphnia (PROPYLBENZENE; CAS No. 103-65-1)	Parameters:	EC50 Species: Daphnia magna Straus 1820	Dosage / Time:	2000 µg/l 24 Hr	Specification:	Toxicity to daphnia (MESITYLENE; CAS No. 108-67-8)	Parameters:	NOEC Species: Daphnia magna Straus 1820	Dosage / Time:	400 µg/l 504 Hr
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Specification:	Toxicity to algae (MESITYLENE; CAS No. 108-67-8)	
Parameters:	EC50	Species: Scenedesmus subspicatus
Dosage / Time:	40 µg/l	48 Hr
Specification:	Toxicity to algae (PROPYLBENZENE; CAS No. 103-65-1)	
Parameters:	EC50	Species: Selenastrum capricornutum
Dosage / Time:	1800 µg/l	72 Hr

## 13. DISPOSAL CONSIDERATIONS

Disposal method and containers: Ensure containers are sealed. Avoid mist generation. Dispose of to an approved liquid waste facility. Suitable for high temperature incineration. Refer to local Waste Management Authority. Packaging may be recycled providing it is emptied of all residues and thoroughly cleaned by an authorised cleaning facility. Contaminated packaging must be disposed of as for the product.

## 14. TRANSPORT INFORMATION

UN number: Not applicable  
Proper shipping name: Not applicable  
Dangerous goods class: Not applicable  
Subsidiary risk: Not applicable  
Packing group: Not applicable  
Hazchem code: Not applicable  
Poisons schedule: Not applicable

## 15. REGULATORY INFORMATION

NICNAS / AICS: All components are listed  
Poisons Schedule: Not Scheduled  
HSNO Classifications: 6.3A, 6.4A, 6.5B, 9.1B  
ERMA Group Standard: HSR002670  
ERMA / NZIoC: All components are listed  
Tracking: Not required  
Approved Handler: Not required

## 16. OTHER INFORMATION

Reason for issue: New product on range. Update to combined Australia and New Zealand MSDS. Based on BASF Construction Chemicals EU; Division CONICA Technik MSDS Ver. 1.0.0; Dated 14.05.2008.

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.