

Section 1 - Identification of The Material and Supplier Company Details: A&I Coatings Pty Ltd		
Company Details:		
	7 Lackey Rd, Moss Vale NSW 2577	
Phone:	+61 2 4869 1441 (Office Hours)	
Fax:	+61 2 4869 3031	
Website:	www.aicoatings.com	
Email:	helpdesk@aicoatings.com	
EMERGENCY TEL:	(M) 0458 715 846 or (M) 0429 034 350	
Chemical nature:	Polymeric Aliphatic isocyanate.	
Trade Name:	E8480B Hardener	
Other Names:	This is Pack B of a two part system.	
Product Use:	Hardener in coating materials or adhesives for industrial and trade applications.	
Creation Date:	February, 2016	
This version issued:	February, 2020 and is valid for 5 years from this date.	
Poisons Information Ce	ntre: Phone 13 1126 from anywhere in Australia	

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xn, Harmful. Xi, Irritating. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

SUSMP Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.

UN Number: None allocated



GHS Signal word: WARNING

Skin Sensitisation Category 1 Acute Toxicity Inhalation Category 4 Specific target organ toxicity (single exposure), Category 3 Chronically hazardous to the aquatic environment, Category 3

HAZARD STATÉMENT:

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H412: Chronically hazardous to the aquatic environment.

PREVENTION

P102: Keep out of reach of children.

P261: Avoid breathing fumes, mists, vapours or spray.

P262: Do not get in eyes, on skin, or on clothing.

P271: Use only outdoors or in a well ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves, protective clothing and eye or face protection.

P284: Wear respiratory protection when spraying this product.

RESPONSE

P362: Take off contaminated clothing and wash before reuse.

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P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333+P313: If skin irritation or rash occurs: Get medical advice.

P337+P313: If eye irritation persists: Get medical advice.

P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog.

STORAGE

P402+P404: Store in a dry place. Store in a closed container.

P403+P235: Store in a well-ventilated place. Keep cool.

DISPOSAL

P501: If they can not be recycled, dispose of contents to an approved waste disposal plant and containers to landfill (see Section 13 of this SDS).

Emergency Overview

Physical Description & Colour: Colourless to yellowish liquid.

Odour: Almost odourless.

Major Health Hazards: harmful if inhaled, possible skin sensitiser. SWA has released a document entitled GUIDELINES FOR HEALTH SURVEILLANCE FOR ISOCYANATES which can be found at http://www.safeworkaustralia.gov.au/sites/SWA/about/Publications/Documents/514/lsocyanates.pdf

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc,%	TWA (mg/m³)	STEL (mg/m ³)
Hexamethylene-1,6-diisocyanate	822-06-0	<0.15	0.02	0.07
hydrophilic aliphatic polyisocyanate	160994-68-3	>80	not set	not set
Other non hazardous ingredients	secret	to 100	not set	not set

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: If symptoms of poisoning become evident, contact a Poisons Information Centre, or call a doctor at once. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow victim to move about unnecessarily. Symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.

Skin Contact: Gently blot away excess liquid. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact: Quickly and gently blot material from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is

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Phone: 1800 819 585 (office hours)



involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures. **Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam, water fog. Avoid the use of water jets.

Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade. Cool closed, undamaged containers exposed to fire with water spray.

Flash point:No dataUpper Flammability Limit:No data.Lower Flammability Limit:No data.Autoignition temperature:About 465°CFlammability Class:No data.

Section 6 - Accidental Release Measures

Accidental release: In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. Suitable materials for protective clothing include butyl rubber. Eye/face protective equipment should comprise as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers dry and away from water. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

TWA (mg/m³)

0.02

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits Hexamethylene-1,6-diisocyanate

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems. **Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

SAFETY DATA SHEET

Issued by: A&I Coatings Pty Ltd

Phone: 1800 819 585 (office hours)

STEL (mg/m³)

0.07



Skin Protection: If you believe you may have a sensitisation to this product or any of its declared ingredients, you should prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

Protective Material Types: We suggest that protective clothing be made from the following materials: butyl rubber.

Respirator: Positive pressure air supplied full face respirator preferred for long term use. Cartridge filter mask complying with AS 1716 for organic vapours acceptable for short periods depending on risk assessment. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Devices.

N.B. The final choice of appropriate personal protection will vary according to individual circumstances. This can include methods of handling and engineering controls as determined by appropriate applicator risk assessment.

Eyebaths or eyewash stations and safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

Section 9 - Physical and Chemical Properties:			
Physical Description & colour:	Colourless to yellowish liquid.		
Odour:	Almost odourless.		
Boiling Point:	Decomposes before boiling at 100kPa.		
Freezing/Melting Point:	No specific data. Pour point about -15°C		
Volatiles:	No data.		
Vapour Pressure:	Negligible at normal ambient temperatures.		
Vapour Density:	No data.		
Specific Gravity:	1.16 at 20°C		
Water Solubility:	Insoluble.		
pH:	No data.		
Volatility:	Negligible at normal ambient temperatures.		
Odour Threshold:	No data.		
Evaporation Rate:	No data.		
Coeff Oil/water Distribution:	No data		
Viscosity:	About 2.800 mPa.s at 23°C		
Autoignition temp:	About 465°C		

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated. **Incompatibilities:** No particular Incompatibilities.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

Polymerisation: This product may undergo polymerisation in the presence of certain chemical reagents. See Incompatibilities above. Polymerisation is often accompanied by liberation of heat, and may lead to a dangerous or explosive situation. If the product is seen to be heating up, treat as a fire incident.

Section 11 - Toxicological Information

Local Effects: Target Organs:

There is no data to hand indicating any particular target organs.

Hexamethylene-1,6-diisocyanate is classed by SWA as a potential sensitiser by skin contact.

SAFETY DATA SHEET

Issued by: A&I Coatings Pty Ltd

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Classification of Hazardous Ingredients

Ingredient

Risk Phrases

Hexamethylene-1,6-diisocyanate

- No risk phrases at concentrations found in this product
- Acute toxicity category 3
- Eye irritation category 2
- Specific target organ toxicity (single exposure) category 3
- Skin irritation category 2
- Respiratory sensitisation category 1
- Skin sensitisation category 1

Hydrophilic Aliphatic Polyisocyanate:

LD₅₀ Oral, Rat >2000mg/kg

 LC_{50} Inhalation, Rat = 0.39mg/L/4hr

Reproductive toxicity/Fertility: No data available Reproductive toxicity/Teratogenicity: No data available

Genotoxicity in vitro: No indication of mutagenic effects (OECD 471)

Genotoxicity in vivo: No data available

STOT evaluation – one-time exposure: May cause respiratory irritation.

STOT evaluation - repeated exposure: Based on available data, the classification criteria are not m

Potential Health Effects

LD₅₀ Dermal, Rat = >2000mg/kg

Persons sensitised to isocyanates should avoid contact with this product.

Inhalation:

Short Term Exposure: Available data shows that this product is harmful, but symptoms are not available. In addition product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. **Long Term Exposure:** No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: Available data indicates that this product is not harmful. It should present no hazards in normal use. However product may be irritating, but is unlikely to cause anything more than mild transient discomfort. **Long Term Exposure:** No data for health effects associated with long term skin exposure.

Eye Contact:

Short Term Exposure: This product may be irritating to eyes, but is unlikely to cause anything more than mild transient discomfort.

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

Long Term Exposure: No data for health effects associated with long term ingestion.

Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: No significant ingredient is classified as carcinogenic by NTP.

IARC: No significant ingredient is classified as carcinogenic by IARC.

Section 12 - Ecological Information

This product is harmful to aquatic organisms. This product is biodegradable. It will not accumulate in the soil or water or cause long term problems.

Fish: LC₅₀ Danio rerio (zebra fish): 28.3mg/L (OECD 203)

Algae: EC₅₀ Scenedesmus subspicatus >100mg/L (OECD 201)

Bacteria: EC₅₀ Activated sludge bacteria >10,000mg/L (OECD 209)

Daphnia: EC₅₀ >100mg/L (OECD 202)

Biodegradation: 2 %, 28 d, i.e. not readily degradable (OECD 301 F)

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

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SAFETY DATA SHEET

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Section 13 - Disposal Considerations

Disposal: This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. If neither of these options is suitable in-house, consider controlled incineration, or contact a specialist waste disposal company.

Section 14 - Transport Information

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

Section 15 - Regulatory Information

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Hexamethylene-1,6-diisocyanate, is mentioned in the SUSMP.

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

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ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)	
AICS	Australian Inventory of Chemical Substances	
SWA	Safe Work Australia, formerly ASCC and NOHSC	
CAS number	Chemical Abstracts Service Registry Number	
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency	
	services especially firefighters	
IARC	International Agency for Research on Cancer	
NOS	Not otherwise specified	
NTP	National Toxicology Program (USA)	
R-Phrase	Risk Phrase	
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons	
UN Number	United Nations Number	
THIS SDS 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 MUST REVIEW THIS SDS IN THE CONTEXT OF HOW		

THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE. IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS 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.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (December 2011)

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http://www.kilford.com.au/ Phone (02)9251 4532

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