

SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION: PRODUCT IDENTIFIER/CHEMICAL IDENTITY

- 1.1 PRODUCT IDENTIFIER:** Bona Traffic Hardener
- 1.2 PRODUCT CODE:** Not applicable.
- 1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:**
- RELEVANT IDENTIFIED USES:** Hardener for 2-component waterborne timber floor finish.
RESTRICTIONS ON USE: None known.
- 1.4 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**
- SUPPLIER NAME:** Ezi Floor Products (VIC) Pty Ltd (ABN: 2208 758 1520),
ADDRESS: Unit 9, Wareca Business Park
1866 Princes Highway, Clayton, Victoria, 3168
- E-MAIL:** info@bona.net.au
TELEPHONE NUMBER: 03 9543 4399
- 1.5 EMERGENCY TEL. NUMBER:** 03 9543 4399 Business Hours. (0408 008 762 After Hours.)

SECTION 2 – HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:

NOHSC 1008: This product contains a component that is classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (SafeWork Australia).

Xn – Harmful, Xi - Irritant

Risk Phrases: R20 - Harmful by inhalation.
R37 - Irritating to the respiratory system.
R43 - May cause sensitisation by skin contact.
R52/53 - Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety Phrases: S2 - Keep out of reach of children.
S20/21 - When using, do not eat, drink or smoke.
S23 - Do not breathe vapour or spray mists.
S24/25 - Avoid contact with skin & eyes.
S36/37/39 - Wear suitable protective clothing, gloves & eye/face protection.
S41 - In case of fire or explosion, do not breathe fumes.
S60 - This material and its container must be disposed of as hazardous waste.
S62 - If swallowed, do not induce vomiting; seek medical advice immediately and show the label or MSDS.

GHS CLASSIFICATION HAZARD

CLASS & CATEGORY: The product is a mixture and has been assessed under the Model Work Health and Safety Regulations with the following Classification:

Acute Toxicity - Inhalation	Category 4
Specific Target Organ Toxicity	Category 3
Skin Sensitisation	Category 1
Chronic Aquatic Toxicity	Category 3

SAFETY DATA SHEET

SECTION 2 – HAZARD(S) IDENTIFICATION Continued

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:

SIGNAL WORD:	Warning.
PICTOGRAMS:	Exclamation Mark
HAZARD STATEMENTS:	H317 - May cause an allergic skin reaction. H332 - Harmful if inhaled. H335 - May cause respiratory irritation. H412 - Harmful to aquatic life with long lasting effects.
PRECAUTIONARY STATEMENTS:	
Prevention:	P261 - Avoid breathing mists/vapours/spray. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves. P271 - Use only in well-ventilated area. P273 - Avoid release to the environment.
Response:	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 - Call a POISON CENTRE (Phone in Australia 131 126; New Zealand 0800 764 766) or doctor if you feel unwell.
Storage:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.
Disposal:	P501 - Dispose of contents/container in accordance with local regulations.

2.3 OTHER HAZARDS: As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material. This product contains an isocyanate component and based upon these types of compounds the product may cause sensitisation of the respiratory system leading to an asthmatic condition, wheezing and tightness of the chest. People previously sensitised to isocyanates may exhibit asthmatic symptoms well below the nominated Occupational Exposure Level.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	Concentration % W/W	Risk Phrases*	GHS Classification
Hydrophilic, aliphatic polyisocyanate	160994-68-3	50% - 75%	R20, R37, R43, R52/53	Acute Tox 4 - H332 STOT 3 - H335 Skin Sens 1 - H317 Chron Aquat 3 - H412

* Please see Section 16 of this SDS for full text of the Risk Phrases

SAFETY DATA SHEET

SECTION 4 – FIRST AID MEASURES

4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:

INGESTION: Rinse mouth out with water. Due to the blend of ingredients present, the manufacturer recommends that if swallowed, do NOT induce vomiting. If irritation develops or persists or vomiting has occurred after ingestion, seek medical assistance. The manufacturer recommends that if large quantities have been ingested you contact the Poisons Information Centre (Phone in Australia 131 126; New Zealand 0800 764 766) or a doctor immediately.

EYE: If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a doctor. Check for contact lenses. If there are contact lenses, these should be removed under supervision. After flushing, if irritation develops or persists seek medical assistance.

SKIN CONTACT: If skin or hair contact has occurred remove any contaminated clothing and footwear, wash skin or hair thoroughly with soap and water. Do NOT use solvents and/or thinners. If irritation develops or persists, consult a Doctor.

INHALATION: If affected, remove the patient from further exposure into fresh air, if safe to do so. If providing assistance, avoid exposure to yourself - only enter contaminated environments with adequate respiratory equipment. Once removed, lay patient down in a well-ventilated area and reassure them whilst waiting for medical assistance. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance.

PROTECTION FOR FIRST AIDERS: No person shall place themselves in a situation that is potentially hazardous to themselves. Always ensure that you are wearing gloves when dealing with first aid procedures involving chemicals and/or blood.

FIRST AID FACILITIES: Eye wash fountain and safety showers are recommended in the area where the product is used. As a minimum a source of flowing water should be available.

4.2 MOST IMPORTANT SYMPTOMS & EFFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE:

ACUTE: Ingestion or inhalation of vapours may lead to irritation of the mouth and respiratory tract. Eye contact may lead to localised burning, redness and tearing. If splashed in the eyes, the liquid may cause irritation and reversible damage. Skin contact may lead to redness or itching.

CHRONIC: Skin contact may aggravate/exacerbate existing skin conditions, such as dermatitis. Repeated or prolonged contact with the preparation may cause removal of the natural fats and oils from the skin. Continued contact may lead to non-allergic contact dermatitis and absorption through the skin. The product contains a component that may cause an allergic skin reaction. Based upon the properties of the isocyanate component and considering toxicological data on similar preparations, the manufacturer nominates that the preparation may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the nominated Exposure Levels. Repeated exposure may lead to permanent respiratory disability.

SAFETY DATA SHEET

SECTION 4 – FIRST AID MEASURES - Continued

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:

ADVICE TO DOCTOR: Treat symptomatically. As the product is harmful by inhalation and a potential respiratory sensitiser, if large quantities have been ingested or inhaled Poisons Specialists should be contacted immediately.

SECTION 5 – FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA:

SUITABLE MEDIA: Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, alcohol resistant foam, dry chemical or water fog. Spray down fumes resulting from fire.

UNSUITABLE MEDIA: Avoid using full water jet directed at residual material that may be burning.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

COMBUSTION HAZARDS: Please note that this product contains an isocyanate component. This material may decompose and release toxic substances. Combustion may produce oxides of carbon, nitrogen, and hydrogen, and the material may decompose and release dense black smoke and toxic substances such as hydrogen cyanide and monomeric isocyanate components. The decomposition and combustion products could therefore present as a health hazard.

5.3 ADVICE FOR FIREFIGHTERS:

FIRE: This product is not flammable under conditions of use, however it is a low flash point (Typically 65°C) combustible, viscous liquid that will ignite if pre-heated. Please note that this product contains isocyanate components. In the event of a fire this material may decompose and release toxic substances. Keep storage tanks and fire exposed surfaces, etc, cool with water spray. Do not allow runoff from a fire to enter drains, sewers or waterways.

HAZCHEM CODE: Not applicable.

EXPLOSION: No information to indicate that the product is an explosion hazard, however vapours may produce an explosive atmosphere if the product is heated. Vapours may accumulate in low or confined areas or travel to a source of ignition. Extinguish all sources of flame or spark. Closed containers may explode when exposed to extreme heat.

PROTECTIVE EQUIPMENT: In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PROTECTION: For spills, wear Nitrile Rubber gloves, glasses/goggles, boots and full-length clothing. During routine operation for a small spill a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency and as a precaution whether the atmosphere is flammable. If in doubt wear self-contained breathing apparatus.

SAFETY DATA SHEET

SECTION 6 – ACCIDENTAL RELEASE MEASURES Continued

CONTROL MEASURES: Ventilate area and extinguish and/or remove all sources of ignition. CAUTION: Vapour may form an explosive mixture with air. Never enter a spill area unless you know the vapours have dissipated to make the area safe. Stop the leak if safe to do so. Caution: The spilled product will be slippery. Avoid contact with the spilled material.

EMERGENCY PROCEDURES: In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

6.2 ENVIRONMENTAL PRECAUTIONS:

SPILL ADVICE: Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:

CONTAINMENT: For large spills, evacuate or isolate the spill area according to your local emergency plan. Note: Large spills should be dealt with by people trained in the clean up procedures as per AS4081. Contain the spill and absorb with solid decontaminant as per AS4081. Place used absorbent in suitable containers; add an equal quantity of the isocyanate decontamination solution described in "Cleaning Procedures" below. Leave the container open for at least 24 hours in a well ventilated area to allow complete reaction of the material. Sealing of a container with unreacted isocyanates leads to the liberation of CO₂, which can cause overpressure in the container. Caution: Reacting isocyanate will pressurise sealed containers. Follow state or local regulations for the disposal of isocyanate waste. Self-contained breathing apparatus must be used. Do not allow the spilled product to enter drains, sewers or watercourses - inform local authorities if this occurs.

CLEANING PROCEDURES: Having contained the spill, collect all material quickly as mentioned above. Personnel must wear safety glasses/goggles, gloves, respirators and full-length protective clothing during cleaning procedures. For large spill clean up operations personnel must wear air supplied respirators. After removing the absorbent, the spill surface should be cleaned with an isocyanate decontamination solution. AS4081 recommends a mixture of 90% water, 2% non-ionic surfactant and 8% concentrated aqueous ammonium hydroxide (0.880 ammonia). Follow the detergent wash with a water rinse. Do not allow the wash or rinse to enter drains, sewers or watercourses - inform local authorities if this occurs. [The manufacturer recommends an alternative decontaminant solution (by volume) of 45 parts water: 50 parts isopropyl alcohol: 5 parts concentrated ammonia (d:0.880). Please note that this solution is flammable due to the isopropyl alcohol component. Another non-flammable decontaminant recommended by the manufacturer is 5 parts sodium bicarbonate: 95 parts water.].

SAFETY DATA SHEET

SECTION 7 – HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

7.1 PRECAUTIONS FOR SAFE HANDLING:

SAFE HANDLING:

The material should be used in a well-ventilated area to minimise the potential for the build-up of vapours. Forced ventilation should be used if there is the potential for vapours to accumulate. Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. A full-face shield should be used if there is the potential for the product to enter the eye via processes such as mixing or splashes. An approved respirator for isocyanates should be used if there is the potential for inhaling vapours during the process. Prevent small spills and leakage. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid inhalation of vapours; as per any industrial product adequate ventilation must be supplied to remove vapours from the work environment to achieve this. Keep containers tightly closed when not in use. Prevent material from entering waterways, drains or sewers - inform local authorities if this occurs. **Caution:** Persons with a history of asthma, atopic conditions, hay fever, recurrent acute bronchitis, interstitial pulmonary fibrosis, occupational chest disease or impaired lung function should be advised against risking exposure to isocyanates. Persons with these types of ailments should not be employed in any process in which this product is used. Persons with proven isocyanate sensitivity must not be further exposed to isocyanates.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

SAFE STORAGE:

Store in a well ventilated, frost-free area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Always keep in containers made of the same material as the original one. Only personnel with authorised access should enter a store containing isocyanates. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Protect the packaging from damage. When the packaged material is intact the product is deemed to be of limited hazard. Label precautions must be followed at all times.

INCOMPATIBILITIES:

Avoid oxidizing agents, strong acids, strong alkaline materials, amines, alcohols and water.

SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION

8.1 EXPOSURE CONTROL MEASURES:

EXPOSURE LIMIT VALUES:

Exposure standards for the product have not been established. Therefore, the following Exposure Standard should be considered:
Exposure standards set for **isocyanate (as -NCO)**:
Time Weighted Average (TWA): 0.02mg/m³.
Short Term Exposure Limit (STEL): 0.07mg/m³.

8.2 BIOLOGICAL MONITORING: No data available.

8.3 CONTROL BANDING: No data available.

SAFETY DATA SHEET

SECTION 8 – EXPOSURE CONTROLS & PERSONAL PROTECTION – Cont.

8.4 ENGINEERING CONTROLS:

ENGINEERING CONTROLS: Use product in a well-ventilated area. Where reasonably practical this should be achieved by the use of local exhaust ventilation and good general extraction. Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures, mists and vapours may be generated and exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that does not cause irritation.

8.5 INDIVIDUAL PROTECTION MEASURES:

EYE & FACE PROTECTION: Wear safety glasses/goggles to avoid eye contact. If when mixing or stirring the product there is the possibility of splashing, a full-face shield is recommended. Use eye protection in accordance with AS 1336 and AS 1337.

SKIN (HAND) PROTECTION: If there is the chance of skin contact with the material; wear gloves to provide hand protection. Nitrile rubber gloves are recommended.

SKIN (CLOTHING) PROTECTION:

During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.

RESPIRATORY PROTECTION: Use only in well-ventilated areas. During routine operation with appropriate ventilation, a respirator is not required. If there is a build-up of vapours above the exposure level, respiratory protection in the form of an air-supplied respirator must be used. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment, such as an approved organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716. .

THERMAL PROTECTION: Not applicable.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	Clear colourless liquid.
ODOUR:	Distinctive sweetish odour.
ODOUR THRESHOLD:	No data available.
pH:	No data available.
MELTING/FREEZING POINT:	No data available.
INITIAL BOILING POINT:	No data available.
BOILING RANGE (° C):	No data available.
FLASHPOINT (° C):	Typically 65° C (Setaflash; Closed Cup).
EVAPORATION RATE:	No data available.
FLAMMABILITY LIMITS (%):	No data available.
VAPOUR PRESSURE (mmHg):	No data available.
VAPOUR DENSITY:	No data available.
DENSITY (g/mL @ 15° C):	Typically 1.09.
SOLUBILITY IN WATER(g/L):	Insoluble in water.
PARTITION COEFFICIENT:	No data available for n-octanol/water.
AUTO-IGNITION TEMP (° C):	No data available.
DECOMPOSITION TEMP (° C):	No data available.
VISCOSITY (cSt @ 100° C):	No data available.
VISCOSITY (cSt @ 40° C):	No data available.

SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

- 10.1 REACTIVITY:** The product does not pose any further reactivity hazards other than those listed in the following sub-sections.
- 10.2 CHEMICAL STABILITY:** Stable under recommended storage and handling conditions (see section 7).
- 10.3 POSSIBILITY OF HAZARDOUS REACTIONS:** Keep away from the following materials to prevent strong exothermic reactions: Oxidising agents, strong alkalis, strong acids, amines, alcohols and water. Please Note: Uncontrolled exothermic reactions may occur with amines and alcohols. The product reacts slowly with water, resulting in the production of carbon dioxide. In closed containers, pressure build up could lead to distortion, expansion, and in extreme cases, bursting of the container. Hazardous polymerisation does not occur.
- 10.4 CONDITIONS TO AVOID:** Observe the usual precautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use. Avoid heat, open flames, sparks. Do not use mechanical cutting tools on used containers. Avoid the materials as discussed in the Hazardous Reactions Section above.
- 10.5 INCOMPATIBLE MATERIALS:** Avoid oxidizing agents, strong acids, strong alkaline materials, amines, alcohols and water.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products are not expected to form during normal storage requirements. See Section 5.2 for Hazardous Combustion products.

SECTION 11 – TOXICOLOGICAL INFORMATION

- 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:**
The product is a mixture and test data is not available for the product as a whole.
- ACUTE TOXICITY:**
- SWALLOWED:** Ingestion of this product may cause irritation or in severe cases burns to the mouth and gastrointestinal tract. If the product is ingested, the person should be observed to ensure there is no aspiration into the lungs if the person has vomited or if stomach irrigation is deemed necessary. Ingestion of significant quantities may lead to irritation to the stomach and the person may feel nauseous. During normal usage, ingestion should not be a means of exposure.
- EYE:** No eye acute toxicity data is available. May be mildly irritating to the eyes. Symptoms may include localised burning, redness and tearing. Correct handling procedures incorporating appropriate eye protection should minimise the risk of eye irritation.
- SKIN:** No skin acute toxicity data is available. Due the presence of the isocyanate component, this product is rated as H317 - May cause an allergic skin reaction. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the potential for this to occur. People with pre-existing skin conditions such as dermatitis should take care so as not to exacerbate the condition.

SAFETY DATA SHEET

SECTION 11 – TOXICOLOGICAL INFORMATION - Continued

- INHALED:** The product is rated as H332 - Harmful if inhaled and H335 - May cause respiratory irritation. If the product is used in a confined space or in an environment where the Occupational Exposure Standard is exceeded then based upon the properties of the isocyanate component and considering toxicological data on similar preparations, this product may cause acute irritation and/or sensitisation of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitised persons may subsequently, show asthmatic symptoms when exposed to atmospheric concentrations well below the Exposure Standard.
- 11.2 SKIN CORROSION/ IRRITATION:** Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
- 11.3 SERIOUS EYE DAMAGE/ IRRITATION:** This product is not expected to exhibit Eye Irritation or Serious Damage/ Corrosivity according to OECD Test 405, based on the available data and the known hazards of the components. Correct handling procedures incorporating appropriate eye protection should minimise the risk of eye irritation.
- 11.4 RESPIRATORY OR SKIN SENSITISATION:** This product is not rated as a respiratory tract sensitizer. There is no data on the product as a whole, however, as the product contains an isocyanate component precautions should be taken as isocyanates may cause acute irritation or sensitisation of the respiratory system. The product is rated as H317 - May cause an allergic skin reaction. The product may have a mild hardening action on the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the potential for this to occur. People previously sensitised to chemicals should not be exposed further to these types of materials. People with pre-existing skin conditions such as dermatitis should take care so as not to exacerbate the condition.
- 11.5 GERM CELL MUTAGENICITY:** This product is not expected to be mutagenic according to tests such as OECD Tests 471, 475, 476, 478 and 479, based on the available data and the known hazards of the components and similar preparations.
- 11.6 CARCINOGENICITY:** This product is not expected to be a carcinogen according to OECD Test 451, based on the available data and the known hazards of the components and similar preparations.
- 11.7 REPRODUCTIVE TOXICITY:** This product is not expected to be a reproductive hazard according to tests such as OECD Tests 414 and 421, based on the available data and the known hazards of the components and similar preparations.
- 11.8 SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE:** Under the GHS requirements this product is rated as Specific Target Organ Toxicity (Single Exposure) H335 - May cause respiratory irritation.
- 11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE:** This product is not expected to cause organ damage from prolonged or repeated exposure according to tests such as OECD Tests 410 and 412, based on the available data and the known hazards of the components and similar preparations.

SAFETY DATA SHEET

SECTION 11 – TOXICOLOGICAL INFORMATION - Continued

11.10 ASPIRATION HAZARD: Due to the blend of ingredients present, the manufacturer recommends that if swallowed, do NOT induce vomiting. As the product contains an isocyanate, aspiration into the lungs may be an issue if vomiting has occurred after ingestion or if stomach irrigation is deemed necessary. As a precaution, if vomiting has occurred after ingestion, the patient should be monitored for adverse effects.

11.11 OTHER INFORMATION: Persons with a history of asthma, atopic conditions, hay fever, recurrent acute bronchitis, interstitial pulmonary fibrosis, occupational chest disease or impaired lung function should be advised against risking exposure to isocyanates. Hence, people with these types of ailments should not be exposed to tasks that may potentially release isocyanate vapours. A person with proven isocyanate sensitivity should not be exposed to isocyanates. Once a person has been exposed to isocyanates they may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the nominated Occupational Exposure Level.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 ECOTOXICITY: There is no data available for the product as a whole. Based upon calculated values, the overall product is rated as R52/53 - Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment. The following data has been provided for the components:

Acute data for **Hydrophilic, aliphatic polyisocyanate:**

EC₅₀ (Daphnia, 48 hrs): > 100 mg/L

IC₅₀ (Algae, 72 hrs): > 100 mg/L

LC₅₀ (Fish, 96 hrs): 28.3 mg/L

12.2 PERSISTENCE & DEGRADABILITY:

No persistence or biodegradability data is available for the product. The manufacturer nominates that the isocyanate component will not be readily biodegradable.

12.3 BIOACCUMULATIVE POTENTIAL:

No information is available.

12.4 MOBILITY IN SOIL:

No information is available.

12.5 OTHER ADVERSE EFFECTS:

Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs. The product is miscible with water.

SAFETY DATA SHEET

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1 DISPOSAL METHODS:

PRODUCT:

The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection depot. Spilled product that cannot be recovered should be absorbed and then shovelled into a suitable waste container, such as a plastic drum and then be treated as a solid waste. Please read and follow the instructions in Section 6 - Accidental Release Measures when dealing with spilled product to alleviate the potential for overpressure in the waste container. Follow Government regulations for disposal of such waste. All unused, waste or spilled product must be taken for recycling or disposal by suitably licensed contractors in accordance with Government regulations. For small quantities, do not pour leftover product down the drain. Unwanted material should be brushed out on newspaper, allowed to dry and then disposed of via normal domestic or industrial waste collection.

CONTAINERS:

Empty containers may contain residual material. Caution: Residues are combustible and will ignite with a source of ignition. They should be completely drained and then stored until reconditioned or disposed of. Empty containers should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations. Empty containers should be recycled wherever possible rather than being sent to landfill or incinerated. If being sent to landfill any residual product must be allowed to dry/cure before disposal. As containers may contain combustible residues, they should not be pressurised, cut by a grinder, drilled or exposed to heat, flames or other sources of ignition. Closed containers when exposed to such conditions/treatment may explode causing serious injury.

SECTION 14 – TRANSPORT INFORMATION

This product is not regulated for land, sea or air transportation.

14.1 LAND (ADG Code):

UN NUMBER:	Not applicable
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS (ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable
HAZCHEM CODE:	Not applicable

14.2 SEA (IMDG):

UN NUMBER:	Not applicable
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS (ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable

14.3 AIR (IATA):

UN NUMBER:	Not applicable
UN PROPER SHIPPING NAME:	Not applicable
TRANSPORT HAZARD CLASS (ES):	Not applicable
PACKAGING GROUP:	Not applicable
ENVIRONMENTAL HAZARDS:	Not applicable
SPECIAL PRECAUTIONS FOR USER:	Not applicable

SAFETY DATA SHEET

SECTION 15 – REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:

APPLICABLE REGULATIONS:

SUSMP:	Not scheduled.
AICS:	All ingredients are on the AICS List.
MONTREAL PROTOCOL:	Not applicable to this product.
STOCKHOLM CONVENTION:	Not applicable to this product.
ROTTERDAM CONVENTION:	Not applicable to this product.
BASEL CONVENTION:	Not applicable to this product.
INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):	Not determined.

OTHER REGULATORY INFORMATION:

RISK PHRASES [NOHSC:1008]:	R20 - Harmful by inhalation.
	R37 - Irritating to the respiratory system.
	R43 - May cause sensitisation by skin contact.
	R52/53 - Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES [NOHSC:1008]:

S2 -	Keep out of reach of children.
S20/21 -	When using, do not eat, drink or smoke.
S23 -	Do not breathe vapour or spray mists.
S24/25 -	Avoid contact with skin & eyes.
S36/37/39 -	Wear suitable protective clothing, gloves & eye/face protection.
S41 -	In case of fire or explosion, do not breathe fumes.
S60 -	This material and its container must be disposed of as hazardous waste.
S62 -	If swallowed, do not induce vomiting; seek medical advice immediately and show the label or MSDS.

GHS CLASSIFICATION HAZARD CLASS & CATEGORY

AND HAZARD STATEMENT:	Acute Toxicity - Inhalation Category 4; H332 - Harmful if inhaled.
	Specific Target Organ Toxicity (Single Exposure) Category 3;
	H335 - May cause respiratory irritation.
	Skin Sensitisation Category 1; H317 - May cause an allergic skin reaction.
	Chronic Aquatic Toxicity Category 3;
	H412 - Harmful to aquatic life with long lasting effects.

SECTION 16 – ANY OTHER RELEVANT INFORMATION

SDS INFORMATION:

Date of SDS Preparation: 23rd April 2013

Revision: 6.0

REVISION CHANGES: Initial preparation of new SDS format.

ACRONYMS:

SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
CAS Number	Chemical Abstracts Service Registry Number
EINECS	European Inventory of Existing Commercial Chemical Substances
UN Number	United Nations Number
OSHA	Occupational Safety and Health Administration
ACGIH	American Conference of Governmental Industrial Hygienists
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
IUCLID	International Uniform Chemical Information Database
RTECS	Registry of Toxic Effects of Chemical Substances

SAFETY DATA SHEET

SECTION 16 – ANY OTHER RELEVANT INFORMATION

R-Phrase	Risk Phrases
S-Phrase	Safety Phrases
%W/W	Percent weight for weight
OECD	Organisation for Economic Co-Operation and Development
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
HAZCHEM Code	An emergency action code of numbers and letters which gives information to emergency services
NOHSC	National Occupational Health and Safety Commission
AICS	Australian Inventory of Chemical Substances
TWA	Time-Weighted Average
STEL	Short term Exposure Limit
GHS	Globally Harmonised System of Classification and Labelling of Chemicals

LITERATURE REFERENCES AND SOURCES OF DATA:

OECD Guidelines for Testing of Chemicals
Annex I: OECD Test Guidelines for Studies Included in SIDS
Manual for the Assessment of Chemicals Chapter 2 Data Gathering
International Toxicity Testing Guidelines
Hazardous Substance Information System - Guidance Material for Hazard Classifications
Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Model Work Health and Safety Regulations.
Model Work Health and Safety Regulations - Transitional Principles
Workplace Exposure Standards for Airborne Contaminants
Australian Dangerous Goods Code 7th Edition
Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]
Guidance on the Classification of Hazardous Chemicals under the WHS Regulations
Labelling of Hazardous Substances Hazard and Precautionary Information
Workplace Exposure Standards and Biological Exposure Indices

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