



SECTION 1 – IDENTIFICATION OF MATERIAL AND SUPPLIER

SUPPLIER:	SOLID SOLUTIONS.
ABN:	46 977 073 014.
ADDRESS:	19 Ardena Court, East Bentleigh, VIC 3165.
TELEPHONE:	(03) 9579 2044.
AH EMERGENCY TELEPHONE:	13 1126 (Poisons Information Centre).
FAX:	(03) 9579 0573.
WEB PAGE:	www.solidsolutions.com.au
Product Name:	Solid Bond 330 Part B.
Product Use:	Ambient temperature curing agent formulation for mixing with Solid Bond 330 Part A. Solid Bond 330 Kit is used in areas such as fiberglass reinforced laminating.
Manufacturer's Product Code:	Not applicable.
Creation Date:	01/15/2012.
Revision Date:	

SECTION 2 – HAZARDS IDENTIFICATION

This product is classified as a HAZARDOUS SUBSTANCE according to criteria of the ASCC and as DANGEROUS GOODS according to the ADG Code.	
Hazard Category:	Xi: Irritant, Sensitiser.
Emergency Overview:	Alkaline material may cause burns. Irritating to eyes and skin. May cause sensitisation by skin contact.
Skin Contact:	Alkaline material may cause burns. Irritating to eyes and skin. May cause sensitisation by skin contact.
Eye Contact:	Alkaline material may cause burns. Irritating to eyes and skin.
Primary Routes of Exposure:	Skin, eyes.
Risk Statements:	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.
Safety Statements:	S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
Polyethylenepolyamine, dimer fatty acid condensate	103758-98-1	> 90% w/w
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	< 10% w/w
Bis((dimethylamino)methyl)phenol	71074-89-0	< 5% w/w
Total		100 % w/w

SECTION 4 – FIRST AID MEASURES

Scheduled Poisons:	Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons. (Phone Australia 13 1126) or a doctor (at once).
First Aid Facilities Required:	Eye wash fountains and a general washing facility should be easily accessible in the immediate work area.
Inhalation:	Risk of inhalation is negligible when cold. If vapours of hot material have been inhaled, remove victim to fresh air – avoid becoming a casualty. If not breathing, apply mouth-to-mouth resuscitation. If breathing is difficult, qualified personnel should administer oxygen. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Call a doctor and/or transport to an emergency hospital.
Skin Contact:	If molten material contacts the skin, apply cold water immediately. Wipe off excess. If on skin, rinse with 5% acetic acid (or vinegar), scrub with soap and water, followed by water rinse. If hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Immediately remove contaminated clothing and wash before reuse. If irritation develops seek medical attention.
Eye Contact:	If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If irritation develops seek medical attention.
Ingestion (Swallowed):	Immediately rinse mouth with water. If swallowed DO NOT induce vomiting. Give a glass of water to drink. Never give anything by mouth to an unconscious patient. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration into the lungs. Get to a doctor or hospital quickly.
Advice to Doctor:	No specific antidote is known. Supportive care. Treatment based on judgement by the doctor in response to reactions of the patient. Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons.

SECTION 5 – FIRE FIGHTING MEASURES

Hazards from Combustion Products:	Upon combustion, this product may emit carbon monoxide, carbon dioxide, oxides of nitrogen (NO _x), ammonia, nitric acid, dense black smoke, and other possibly toxic gases and vapours on burning.
Hazardous Decomposition Products:	Upon decomposition, this product may emit carbon monoxide, carbon dioxide, oxides of nitrogen (NO _x), ammonia, nitric acid, dense black smoke, and other possibly toxic gases and vapours on burning.
Suitable Extinguishing Media:	Carbon dioxide, dry chemical foam, dry powder. For large-scale fires, alcohol resistant foams are preferred if available. General-purpose synthetic foams or protein foams may function, but much less effectively. Water spray, fog or foam may be used but not as a water jet. If possible, contain fire run off water.
Precautions for Fire Fighting:	In case of fire use large quantities of water, foam, carbon dioxide or a dry chemical. Immediately evacuate the area (including down-wind) of unnecessary personnel. People who are fighting fires must be protected against hazardous combustion products by wearing positive pressure self-contained breathing apparatus and full protective clothing. Do not reseal contaminated containers. If safe to do so, remove container(s) from the path of the fire if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.
Hazchem Code:	3X.

Flash Point:	> 150 °C
Solubility in Water:	Ca. 0.25 g/l.
Fire Hazards:	Hazardous combustion products: Upon decomposition, this product may emit carbon monoxide, carbon dioxide, oxides of nitrogen (NO _x), ammonia, nitric acid, dense black smoke, and other possibly toxic gases and vapours on burning.
Flammability:	Non-flammable liquid. Combustible Liquid C2. Product may burn in a fire situation generating toxic vapours or fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills:

Personal Precautions:	Evacuate and ventilate spill area. In case of spill, wear full protective equipment including respiratory equipment during clean up as indicated in section 8 below. Isolate hazard area and deny entry.
Environmental Precautions:	Contain spill, e.g. by diking, to prevent entry into sewers, drainage system, surface or ground water systems. In the event of product entering waters or drainage system, or polluting soil or plants contact the Environmental Protection Authority or your local Waste Management Authority.
Major Spill:	If transportation spill, dial “000” for Police or Fire Brigade. Large quantities may be pumped into closed containers for disposal.
Minor Spill:	Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, sawdust, vermiculite or other absorbent), which then can be put into appropriately labelled open top drums.
Clean Up:	Residual material may be removed using water spray and may be neutralized with a 5% solution of acetic acid (or vinegar).

SECTION 7 – HANDLING AND STORAGE

Handling:	Avoid all personal contact, including skin and eye contact and inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Launder contaminated clothing before re-use.
Storage:	Store indoors at 15 to 25°C in original, unopened containers. Store away from strong oxidising agents, acids. Masses of more than 0.5 kg of product plus an epoxy resin will cause irreversible polymerization with considerable heat build-up.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission: Time-weighted Average (TWA): None established for this product or its ingredients. Short Term Exposure Limit (STEL): None established for this product or its ingredients.
Engineering Controls:	When used hot, ensure for good ventilation/ suction, use only in a well-ventilated area, ensure airflow, where this product is used, is directed away from the operators.
Personal Protection:	<u>Respiratory protective equipment:</u> Not generally required. When used hot, avoid breathing dust (or) vapour (or) spray mist, suitable breathing mask where ventilation is inadequate. <u>Eye protection:</u> Avoid contact with eyes. Wear eye protection when mixing or using. The use of face shields, chemical goggles, or safety glasses with side shield protection is recommended. <u>Hand protection:</u> Avoid contact with skin. Wear protective gloves when mixing or using. Chemical resistant gloves (e.g. Butyl, Neoprene, Viton, Polyethylene/Ethylene Vinyl Alcohol/ Polyethylene (or PE/EVAL/PE) or Dupont Barricade gloves complying with AS 2161) are recommended. <u>Clothing:</u> Suitable protective clothing complying with AS 2919 (Industrial Clothing), suitable footwear complying with AS/NZS 2210 (Occupational protective footwear - Guide to selection, care and use).

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Description/ Properties:	
Appearance:	Viscous amber liquid.
Colour:	Amber.
Odour:	Mild amine odour.
pH:	Alkaline.
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point/ Range:	Not Known.
Freezing/ Melting Point:	Not available.
Solubility in Water:	Ca 0.25 g/l.
Specific Gravity:	0.96.
Flashpoint:	> 150 °C.
Flammability Limits:	Not applicable.
Ignition Temperature:	Not available.
Other Properties:	
Volatile Organic Compounds (VOC) Content:	0 % v/v.
Per Cent Volatile:	0 % v/v.
Solubility in Solvents:	Soluble in many organic solvents.
Stability:	Stable under normal conditions.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Conditions to Avoid:	Avoid extreme heat.
Materials to Avoid:	Strong oxidising agents, acids. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material. Masses of more than 0.5 kg of product plus an epoxy resin will cause irreversible polymerization with considerable heat build-up.
Hazardous Decomposition:	Upon decomposition, this product may emit carbon monoxide, carbon dioxide, oxides of nitrogen (NO _x), ammonia, nitric acid, dense black smoke, and other possibly toxic gases and vapours on burning.
Hazardous Polymerisation:	Will not occur by itself, but masses of more than 0.5 kg of product plus an epoxy resin will cause irreversible polymerization with considerable heat build-up.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	No data for product, following data is compiled on basis of ingredients.
Acute:	
Swallowed:	No data available.
Eye:	On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, severe eye irritation. Corrosive to the eyes of a rabbit.
Skin:	On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, severe skin irritation. Corrosive to the skin of a rabbit.
Inhaled:	No data available.
Carcinogenicity:	No data available.
Reproductive and Developmental Toxicity:	On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, no evidence of mutagenic activity was observed in a bacterial mutation assay. Chromosome Aberration assay: Negative (Activated and Nonactivated).
Acute Toxicity Data (Oral):	On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, (Oral) LD ₅₀ (rat) 1,673 mg/kg.
Acute Toxicity Data (Dermal):	On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, (Dermal) LD ₅₀ (rabbit) 1,242 mg/kg.
Acute Toxicity Data (Inhalation):	No data available.
Chronic Toxicity Data:	No data available.
Sensitisation:	On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, dermal sensitisation has been seen in some humans. The results of a test on guinea pigs showed this mixture to be a weak sensitiser. Dermal sensitisation to this mixture has been seen in some humans. The results of a test on guinea pigs showed this mixture to be a weak skin sensitiser.

SECTION 12 – ECOLOGICAL INFORMATION

Movement & Partitioning	No data for product, following data is compiled on basis of ingredients.
Degradation & Persistence:	No data available. On basis of ingredients: 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, according to the results of tests of biodegradability, this mixture is not readily biodegradable.
Fish Toxicity:	On basis of ingredients: Toxicity for 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol: Acute LC ₅₀ (24 hour) for Rainbow Trout (<i>Oncorhynchus mykiss</i>) 222 mg/l Acute LC ₁₀₀ (96 hour) for Rainbow Trout (<i>Oncorhynchus mykiss</i>) 240 mg/l Acute LC ₀ (96 hour) for Rainbow Trout (<i>Oncorhynchus mykiss</i>) 180 mg/l Acute LC ₅₀ (24 hour) for Carp (<i>Cyprinus carpio</i>) 249 mg/l Acute LC ₅₀ (96 hour) for Carp (<i>Cyprinus carpio</i>) 175 mg/l.
Algae Toxicity:	On basis of ingredients: Toxicity for 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol, Acute EC ₅₀ (72 hour) for <i>Scenedesmus subspicatus</i> is 84 mg/l.
Invertebrates Toxicity:	On basis of ingredients: Toxicity for 2,4,6-Tris(dimethylaminomethyl)phenol & Bis((dimethylamino)methyl)phenol: Acute EC ₅₀ (96 hour) for Grass shrimp (<i>Palaemonetes</i>) 718 mg/l Acute EC ₁₀₀ (96 hour) for Mud crab (<i>Neopanope</i>) 1,000 mg/l Acute EC ₀ (96 hour) for Mud crab (<i>Neopanope</i>) 750 mg/l.
Toxicity to Microorganisms:	No data available.
General:	DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Product partially miscible with water. Keep from entering waste-water, soil or surface waters. Inform local authorities if this occurs.

SECTION 13 – DISPOSAL CONSIDERATIONS

Any disposal of product, drain and rinse liquid, or containers, must be in accordance with all State, Territory and/or Local government regulations. Liquids are usually incinerated in an approved facility. Waste characterisation and disposal compliance are the responsibility solely of the party generating the waste or deciding to discard or dispose of the material. None of these waste management options should be considered "arranging for disposal".

SECTION 14 – TRANSPORT INFORMATION

General:	This material is a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number:	2735.
UN Proper Shipping Name:	AMINES, LIQUID, CORROSIVE. (Contains 2,4,6-Tris(dimethylaminomethyl)phenol).
ADG Class:	8.
ADG Subsidiary Risk:	Not Applicable.
Packing Group:	III.
HAZCHEM Code:	3X.
Flammability:	Non-flammable liquid. Combustible Liquid C2. Product may burn in a fire situation generating toxic vapours or fumes.

SECTION 15 – REGULATORY INFORMATION

SUSDP:	Poisons Schedule Number S5 allocated.
AICS:	All ingredients present on AICS.
Labelling Details:	
Hazard Category:	Xi: Irritant, Sensitiser.
Risk Statements:	R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.
Safety Statements:	S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
ADG Code:	Class 8.

SECTION 16 – OTHER INFORMATION

Acronyms:	SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons.
	ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail.
	CAS Number	Chemical Abstracts Service Registry Number.
	UN Number	United Nations Number.
	HAZCHEM	An emergency action code of numbers and letters which gives information to emergency services.
	ASCC	Australian Safety and Compensation Council.
	AICS	Australian Inventory of Chemical Substances.
Issue Date:		
Supersedes Issue Date:		
Revision Information:	Reformat.	
Contact Point:	Regulatory Affairs Manager.	
Telephone:	(03) 9579 2044.	
Note:	Safety Data Sheets are updated frequently. Please ensure that you have a current copy.	
Disclaimer:	This SDS summarises at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since Solid Solutions cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use the product in the workplace. This SDS does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.	