

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:	Epoxy Cast 303 Part A.
Proper Shipping Name:	Not Applicable
Product Use:	Ambient temperature epoxy resin based formulation for mixing with Epoxy Cast 303 Part B. Epoxy Cast 303 Kit is used in areas such as clear castings, electrical encapsulation and badge coating.
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 Australian Safety and Compensation Council (ASCC) and as **NON-DANGEROUS GOODS** according to the Australian Dangerous Goods (ADG) Code.

Hazard Category:	Xi: Irritant.
Emergency Overview:	Irritating to eyes and skin.
Skin Contact:	Strongly irritant.
Eye Contact:	Strongly irritant.
Inhalation:	At room temperature, vapours are minimal due to low vapour pressure.
Primary Routes of Exposure:	Skin.
Risk Statements:	R36/38 Irritating to eyes and skin.
Safety Statements:	S2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:	CAS Number:	Proportion:
1,2,3-Propanetriol, glycidyl ether	90529-77-4	100% 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:	Remove victim from exposure 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 skin or 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, hydrogen chloride, phosgene and other possibly toxic gases and vapours on burning.
Hazardous Decomposition Products:	Upon decomposition, this product may emit this product may emit carbon monoxide, carbon dioxide, hydrogen chloride, phosgene and other possibly toxic gases and vapours on burning.
Suitable Extinguishing Media:	Carbon dioxide, dry powder or water spray. 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 may be used as a blanket for fire extinguishment. If water is used, it should be used in very large quantities. 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:	Not applicable.
Flash Point:	118-135°C.
Solubility in Water:	20-30 g/l.

Fire Hazards:	Hazardous combustion products: Upon decomposition, this product may emit carbon monoxide, carbon dioxide, hydrogen chloride, phosgene and other possibly toxic gases and vapours on burning.
Flammability:	Non-flammable liquid. Combustible Liquid C1. 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 steam or hot soapy water. Use of solvents in cleanup poses a distinct hazard and therefore should be avoided.

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, bases, acids, powdered metals. Masses of more than 0.5 kg of product plus an aliphatic amine 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:	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> 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. 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:	Colourless to slight yellow liquid
Colour:	Colourless to slight yellow.
Odour:	Odourless.
pH:	6-8 (10g/l @ 20°C).
Vapour Pressure:	Not available.
Vapour Density:	Not available.
Boiling Point/ Range:	Decomposes.
Freezing/ Melting Point:	Not available.
Solubility in Water:	20-30 g/l.
Specific Gravity:	1.22.
Dynamic Viscosity:	100-200 mPas @ 20°C.
Flashpoint:	118-135°C.
Flammability Limits:	Not applicable.
Ignition Temperature:	270-310°C.
Other Properties:	
Volatile Organic Compounds (VOC) Content:	0 % v/v.
Per Cent Volatile:	0 % v/v.
Solubility in Solvents:	Miscible with organic solvents including esters, ketones, and aromatic hydrocarbons.
Stability:	Stable under normal conditions.

SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability:	Stable at normal temperatures and pressure.
Conditions to Avoid:	The product is very reactive, and will lead, especially in contact with strong acids, alkalies, metals and the salts of them, to quick, possibly explosive, polymerization. Overheating can also lead to a spontaneous, possibly explosive, exothermic polymerisation.
Materials to Avoid:	Strong oxidising agents, bases, acids, powdered metals. Masses of more than 0.5 kg of product plus an aliphatic amine will cause irreversible polymerization with considerable heat build-up.
Hazardous Decomposition:	Upon decomposition, this product may emit carbon monoxide, carbon dioxide, hydrogen chloride, phosgene 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 aliphatic amine will cause irreversible polymerization with considerable heat build-up.

SECTION 11 – TOXICOLOGICAL INFORMATION

Health Effects:	
Acute:	
Swallowed:	No data.
Eye:	Strong irritant.
Skin:	Strongly irritating to the skin.
Inhaled:	No data.
Carcinogenicity:	No data.
Reproductive and Developmental Toxicity:	Ames test: mutagenic activity.
Acute Toxicity Data (Oral):	Low toxicity, (Oral) LD ₅₀ (rat) 5,000 mg/kg.
Acute Toxicity Data (Dermal):	(Dermal) LD ₅₀ (rabbit) > 2,000 mg/kg.
Acute Toxicity Data (Inhalation):	No data.
Chronic Toxicity Data:	No data.
Additional Information:	The data available is insufficient for a complete industrial toxicological evaluation. The usual hygienic measures must be observed when dealing with chemicals.

SECTION 12 – ECOLOGICAL INFORMATION

Movement & Partitioning	Log octanol/water partition coefficient (log Pow) of -1.94 to -1.78 (calculated).
Degradation & Persistence:	The bioaccumulation potential is considered to be negligible, with a bioconcentration factor (BCF) of 3.162, log BCF 0.5, (calculated), BCFWIN 2.15.
Ecotoxicity:	No data.
Fish Toxicity:	Acute LC ₅₀ (96 hour) for fish is 50-100 mg/l.
Algae Toxicity:	No data for product or ingredients..
Invertebrates Toxicity:	Acute LC ₅₀ (48 hour) for water flea (Daphnia magna) is 2-10 mg/l.
Toxicity to Microorganisms:	No data.
Additional Ecological Information:	
Biological Oxygen Demand (BOD):	At the dilution of 1:100 up to 1:1,000,000 no biodegradation was detectable.
Chemical Oxygen Demand (COD):	COD at 0.11% in water is 19, 800, COD at 0.05% in water is about 5,300.
AOX-indication:	AOX Ca. 10%.
General:	DO NOT DISCHARGE INTO DRAINS, WATERWAYS, SEWER OR ENVIRONMENT. Product soluble in 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 not a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
UN Number:	Not applicable.
UN Proper Shipping Name:	Not applicable.
ADG Class:	Not applicable.
Packing Group:	Not applicable.
HAZCHEM Code:	Not applicable.
Flammability:	Non-flammable liquid. Combustible Liquid C1. 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.
Risk Statements:	R36/38 Irritating to eyes and skin.
Safety Statements:	S 2 Keep out of the reach of children. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
ADG Code:	Not applicable.

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.