Epoxy-Coat Resin

SECTION 1 IDENTIFICATION OF THE MATERIAL AND THE SUPPLIER.

Product (material) name	Epoxy Coat Resin
Other names	
Recommended use	Resin component for two part waterborne epoxy coating.
Supplier contact information	
Name	Durotech Industries
Address	14 Essex St Minto NSW 2566
Telephone	61.2.9603 1177
Facsimile	61.2.9603 3796
Emergency Contact	0423 591 926 (24 hours, 7 days a week)

SECTION 2 HAZARDS IDENTIFICATION.

Hazards classification	Classified as hazardous according to the criteria of NOHSC. Classified as Non-Dangerous Goods according to the criteria of the ADG Code.	
	Xi	Irritant
	N	Environmentally hazardous substance
Risk phrase(s)	R36/38	Irritating to skin and eyes
	R43	May cause sensitization by skin contact.
	R51	Toxic to aquatic organisms.
	R53	May cause long term adverse effects in the aquatic environment.
Safety phrase(s)	S24	Avoid contact with skin.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S28	After contact with skin, wash immediately with plenty of water.
	S37/39	Wear suitable gloves and eye/face protection.

SECTION 3 COMPOSITION/INFORMATION OF INGREDIENTS.

Chemical Identity	Symbol	CAS Number	Risk Phrases	Propn.
BISPHENOL A/EPICHLOROHYDRIN RESIN, LIQUID	Xi, N	25068-38-6	R36/38, R43, R51, R53	30 - 60%
Ingredients determined to be non hazardous, or below cut off concentrations.				To 100%

SECTION 4 FIRST AID MEASURES.

General information	In case of adverse health effects, seek medical advice.
After inhalation	Remove affected person from contaminated area. If not breathing apply artificial respiration and seek urgent medical advice.
After skin contact	Remove contaminated clothing and wash the affected area with soap and water. Ensure contaminated clothing is washed before re-use. If irritation persists, seek medical advice.
After eye contact	Wash with large amounts of water for at least 15 minutes, holding the eyelid(s) open.
After ingestion	Do not induce vomiting. Immediately wash out mouth with water and then give plenty of water to drink. Seek immediate medical advice.

SECTION 5 FIRE FIGHTING MEASURES.

Suitable extinguishing media	Foam, extinguishing powder, carbon dioxide.
Hazards from combustion products	Nitrous gases, carbon monoxide.
Precautions for fire fighters and Special Protective Equipment.	Wear self contained breathing apparatus.

SECTION 6 ACCIDENTAL RELEASE MEASURES.

Emergency procedures.	Extinguish or remove all sources of ignition and stop leak and spread of spill if safe to do so. Do not allow product to enter drains, sewers or water courses - inform the local authorities if this occurs.
Methods and materials for containment and cleanup.	Contain the spill with sand or earth and take up with a vacuum truck or absorb with absorbent material, sand or earth. Place used absorbent in suitable sealed containers and follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water.

SECTION 7 HANDLING AND STORAGE.

Precautions for safe handling.	Ensure good ventilation at the workplace. Wash hands and remove contaminated clothing and protective equipment before eating, drinking, smoking or using the toilet.
Conditions for safe storage.	Keep container tightly closed. Store product between 15-30^{o}C, in a dry environment and out of direct sunlight. Do not allow product to freeze.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION.

National exposure standards.	No exposure standards have been established for this product by Worksafe Australia.
Biological limit value.	No biological limit allocated.
Engineering controls.	Special ventilation is not normally required due to the low volatility of the product at normal temperatures. However, in the operation of certain equipment or at elevated temperatures, mists or vapour may be generated and exhaust ventilation should be provided to maintain airborne concentration levels as low as is reasonably practicable.
Personal protective equipment (PPE).	Avoid contact with the skin and eyes, and avoid breathing vapours or mists. When exposure is likely, personal protective equipment in a combination appropriate to the degree and nature of exposure, should be selected from the following list:- (1) Safety glasses (2) Neoprene, butyl rubber gloves (3) Long sleeve shirts and trousers (4) Leather boots CONTAMINATION If contamination occurs, change clothing taking care to avoid skin contact with the contaminated area, and discard internally contaminated gloves and footwear. Launder contaminated clothing before reuse. Observe good personal hygiene, in particular, wash hands and remove contaminated clothing and protective equipment before eating, drinking, smoking or using the toilet.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES.

Appearance	White homogeneous liquid
Odour	Epoxy
pH	No information
Vapour pressure	No information
Vapour density	No information
Boiling point	>100^{o}C
Freezing point	0 ^{o}C
Solubility	Miscible with water
Specific gravity	1.26-1.28 kg/l
Flammability	Non flammable
Viscosity	15,000-25,000cps

SECTION 10 STABILITY AND REACTIVITY.

Chemical stability	Stable.
Conditions to avoid	Not applicable.
Incompatable materials	Oxidising agents (e.g. perchlorates, nitrates etc.)
Hazardous decomposition products	Oxides of carbon and noxious smoke.
Hazardous reactions	Hazardous reactions will not occur.

SECTION 1 TOXICOLOGICAL INFORMATION

Health effects from the likely routes of exposure	Acute data	Not established for this product.
	Eyes	Possible chemical related eye burns resulting in a cloudy appearance of the cornea, pain, impairment or loss of vision
	Skin	Allergic skin effects such as redness, swelling, blistering and itching. Dermal effects may result in a change in skin pigmentation and/or colouration. Some individuals may experience sever skin reactions resulting in redness, swelling, itching, dryness, cracking, blistering and pain.
	Inhalation	Upper respiratory tract irritation may result in cough, sneezing, nasal discharge, headache, horseness and nose and throat pain.
	Ingestion	Irritation of the gastrointestinal tract may result in pain, abdominal tenderness, nausea, diarrhea and vomiting.
	Reproductive	Limited evidence.
	Other	The following information is based on the Bisphenol A/epichlorohydrin resin: Oral (rat) LD50: 11400 mg/kg Dermal (mouse) LD50: 16600mg/kg

SECTION 12 ECOLOGICAL INFORMATION.

Ecotoxicity	May cause adverse long term adverse effects in the aquatic environment.
Persistance and biodegradability	Not readily biodegradable, has the potential to bioaccumulate.
Mobility	Sinks in water.

SECTION 13 DISPOSAL CONSIDERATIONS.

Disposal methods and containers.	Follow state or local authority regulations and guidelines for disposal of the waste. Clean area with detergent and water. Do not allow product to enter drains, sewers or water courses - inform the local authorities if this occurs.
Special precautions for landfill and incineration.	Non established for this product.

SECTION 14 TRANSPORT INFORMATION

UN Number.	None.
UN Proper Shipping Name.	None.
Class and subsidiary risk(s).	None.
Packing group.	None.
Special precautions for user.	Keep container tightly closed. Store product between 15-30^{o}C, in a dry environment and out of direct sunlight. Do not allow product to freeze.
Hazchem code.	None.

SECTION 15 REGULATORY INFORMATION

Poisons schedule.	S5.
Regulations.	Bisphenol A/epichlorohydrin resin, liquid (CAS Number 26068-38-6) is found on the following regulatory lists: ▪ Australian Inventory of Chemical Substances (AICS) ▪ Australian Poisons Schedule.

SECTION 16 OTHER INFORMATION

Date of preparation.	December 4, 2006
Revision number.	2
Previous issue date.	November 2003
Literature references.	
Sources for data.	▪ Suppliers MSDS for component ingredients ▪ National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Ed [NOHSC:2011(2003)] ▪ Approved Criteria for Classifying Hazardous Substances. [NOHSC:1008(2004)]