

Safety Data Sheet

SDI 100 Fast Cure Epoxy Part A - Light Grey

Version 1



Section 1: Identification of the substance / mixture and of the supplier

Trade Name	SDI 100 Fast Cure Epoxy Coating Part A - Light Grey
Company	SDI Resins Systems
Address	5/26 Access Crescent, Coolum Beach Qld 4573
Telephone	0438 444 400
Emergency Telephone Number	0438 444 400 (Monday-Friday 8:30am-5:00pm)
Revision Date	23 rd Jan 2025

Section 2: Hazards Identification

GHS Classification: Skin Corrosion / Irritation (Category 2)
Serious Eye Damage / Eye Irritation (Category 2)
Skin Sensitisation (Category 1)
Chronic Aquatic Toxicity (Category 2)

Non Dangerous Goods for transport according to ADG-7 (Special Provision AU01)

GHS Label elements, including precautionary statements

Pictogram



Signal word Warning

Hazard statement(s)

H315	Causes skin irritation.
H317	May cause allergic skin irritation.
H318	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P261	Avoid breathing dust / fumes / gas / mist / vapours / spray/
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / eye protection / face protection.
P273	Avoid release into the environment.

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Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor / physician.
P321	Specific treatment (see supplement first aid instructions on this label).
P333 + P313	If skin irritation or rash occurs: Get medical advice / attention.
P362	Take off contaminated clothing and wash before reuse.

Disposal

P501	Dispose of contents / container to an approved waste disposal plant
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Section 3: Composition / Information on Ingredients

Component	Classification	Concentration
4,4'-Isopropylidenediphenol-epichlorohydrin copolymer Common Name: Bisphenol A diglycidyl ether polymer	25085-99-8	>30
Phenol-formaldehyde polymer glycidyl ether Common name: Bisphenol F diglycidyl ether polymer	28064-14-4	>30
1,6-hexanediglycidyl ether	16096-31-4	1 - 30
Aliphatic glycidylether of C ₁₂ - C ₁₄ alcohols	68609-97-2	1 - 30
Benzyl Alcohol	100-51-6	>20
Other ingredients determined not to be hazardous	-	To 100

Section 4: First Aid Measures

General Advice	Seek medical advice. If breathing has stopped or is laboured give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped begin cardiopulmonary resuscitation immediately.
Inhalation	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop and persist seek medical attention.

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Ingestion	DO NOT INDUCE VOMITING. Immediately wash out mouth with water. In general no treatment is necessary unless large quantities are ingested, however, seek medical attention.
Skin	Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.
Eye	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Take care not to rinse contaminated water unto the non-affected eye. If symptoms persist seek medical attention, preferably an ophthalmologist. Suitable emergency eye wash facilities should be available in the work area.
First Aid Facilities	Eye wash and normal wash room facilities.
Advice to Doctor	Treat symptomatically
Other Information	For advice, contact a Poisons Information Center (Phone e.g Australia 131 126)

Section 5: Fire Fighting Measures

Suitable extinguishing media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may functions, but will be less effective. Water fog, applied gently may be used as a blanket for fire extinguishment.
Hazards from Combustion Products	During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Phenolics, Carbon Monoxide, Carbon Dioxide.
Precautions in connection with Fire	Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in cases of rising sound from venting safety device or discolouration of the container. Do not use direct water stream. May spread fire. Move container from fire if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Water fog, applied gently may be used as a blanket for fire extinguishment. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage.

Section 6: Accidental Release Measures

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Environmental precautions	Wear appropriate personal protective equipment and clothing to minimise exposure. Dike and contain the spill. Prevent the material from entering into drains, ditches or other water ways. Place inert absorbent material onto spillage. Do not dilute material but contain. Dispose of waste according to federal, Environmental Protection Authority and state regulations.
Clean-up methods – small spillage	Soak up with an absorbent such as clay, sand or other suitable material. Place in non-leaking container. Seal tightly for proper disposal.
Clean-up methods – large spillage	Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal.

Section 7: Handling and Storage

Storage

Precautions for Safe Handling	Avoid prolonged or repeated contact with skin, eyes and clothing. Avoid contact with skin, eyes and clothing wash thoroughly after handling. WARNING. May cause skin and eye irritation. May cause skin sensitization. Containers, even those that have been emptied, can contain hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes cannot be decontaminated and should be destroyed to prevent reuse.
Conditions for Safe Storage	Store in a cool, dry, well-ventilated area out of direct sunlight. Keep containers closed when not in use.

Section 8: Exposure Controls / Personal Protection

National Exposure Standards	No exposure standards have been established for this material by the Australian National Occupational Health and Safety Commission (NOHSC) or the Occupational Safety and Health Service (OHS) of the New Zealand Department of Labour. However, exposure standards for ingredients are stated below: Australian National Occupational Health and Safety Commission (NOHSC) exposure standards:
Biological Limit Values	No biological limit allocated.
Engineering Controls	Provide sufficient ventilation to keep airborne levels below the exposure limit. Where vapours or mist are generated, particularly in enclosed areas, and natural ventilation is inadequate, a local exhaust ventilation system is required. Provide readily accessible eye wash stations and safety showers.

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Respiratory Protection	Where ventilation is inadequate the use of an Air Purifying Respirator with a replaceable organic vapour filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended.
Eye Protection	Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 – Eye protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material such as impervious PVC or rubber gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1 Occupational protection gloves – Selection use and maintenance.
Body Protection	Suitable work wear should be worn to protect personal clothing. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial Clothing.

Section 9: Physical and Chemical Properties

Form	Thixotropic Paste
Colour	Grey
Odour	Little
pH	Not Available
Melting Point	Not Determined
Flash Point	93°C Closed Cup
Boiling Point	320°C DSC Decomposition.
Vapour Density	Not Available
Vapour Pressure	<0.001 kPa @ 20°C
Density	1.30 to 1.40
Auto-Ignition Temperature	Not Available
Flammable Limits – Lower	Not Available
Flammable Limits – Upper	Not Available

Section 10: Stability and Reactivity

Chemical Stability	Stable under normal conditions.
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Conditions to Avoid	Extremes of temperature and direct sunlight. Can react vigorously with strong oxidizing agents, strong lewis or mineral acids and organic bases. Avoid contact with water or liquids. Do not allow molten product to contact water or other liquids. Reaction with some curing agents may produce considerable heat and possible violent decomposition.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Carbon Monoxide
Hazardous Polymerisation	Reacts violently with strong oxidising agents

Section 11: Toxicological Information

Acute oral toxicity	LD50 Low Toxicity Rat LD50 >15,000mg/kg
Acute dermal Toxicity	LD50 Low Toxicity Rabbit LD50 >23,000mg/kg
Inhalation	At room temperature, exposure to vapour is minimal due to low volatility. Vapour from heated material, mist or aerosols may cause respiratory irritation. The LC50 has not been determined.
Skin	Irritating to skin. This product may cause sensitisation in some individuals.
Eyes	Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision and redness.
Specific Target Organ Systemic Toxicity (Single Exposure)	Evaluation of available data suggests that this material is not an STOT-SE toxicant
Specific Target Organ Systemic Toxicity (Repeated Exposure)	Except for skin sensitisation, repeated exposures to low molecular weight epoxy resins of this type are not anticipated to cause any significant adverse effects.
Carcinogenicity	Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA). Indeed, the most recent review of the available data by the International Agency for Research on Cancer (IARC) has concluded that DGEBA is not classified as a carcinogen. Although some weak evidence of carcinogenicity has been reported in animals, when all the data is considered, the weight of evidence does not show that DGEBA is carcinogenic.
Teratogenicity	Resins based on diglycidyl ether of bisphenol A (DGEBA) did not cause birth defects or other adverse effects on the fetus when pregnant rabbits

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were exposed by skin contacts, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

Reproductive
Toxicity

Section 12: Ecological Information

Ecotoxicity Material is moderately toxic to aquatic organisms on an acute basis (LC50 or EC50 between 1 and 10 mg/L in the most sensitive species tested). Acute LC50 in water flea *Daphnia magna* is 1.3 mg/L. Acute LC50 in fathead minnow (*Pimephales promelas*) is 3.1 mg/L. Toxicity to aquatic species occurs at concentrations greater than water solubility. Maximum acceptable toxicant concentration (MATC) in water flea *Daphnia magna* is 0.55 mg/L. Growth inhibition threshold in bacteria is >42.6 mg C/L. Inhibitory concentration (IC50) in OECD Activated Sludge Respiration Inhibition Test (OECD Test No. 209) is >100 mg/L.

Persistence / Degradability Theoretical oxygen demand (ThOD) is calculated to be 2.35 p/p. In the atmospheric environment, material is estimated to have a tropospheric half-life of 1.92 hr. Biodegradation reached in Modified Zahn-Wellens/EMPA Test. (OECD Test No. 302B) after 28 days: 12%. The 20-Day Biochemical Oxygen Demand (BOD20) is <2.5%.

Movement and Partitioning Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). Measured log octanol/water partition coefficient (log Pow) is 3.7-3.9. Potential for mobility in soil is low (Koc between 500 and 2000). Soil organic carbon/water partition coefficient (Koc) is estimated to be 1800-4400. Henry's Law Constant (H) is estimated to be <6.94E-09 atm-m³/mole. Log octanol/water partition coefficient (log Pow) is estimated, using a structural fragment method, to be 3.84.

Environmental Protection Do not allow product to enter drains, waterways or sewers.

Section 13: Disposal Considerations

Disposal Considerations DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. Dispose of waste according to federal, EPA and state regulations.

Section 14: Transport Information

ADG Not subject to the ADG Code when transported by Road or Rail. (ADG 7, Special Provision AU01)

IATA Proper shipping name: Environmentally hazardous substance, liquid, N.O.S (EPOXY RESIN)
Class : 9
UN/ID No : UN3082
Packing Group : III
ERG : 9L

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IMDG	Proper shipping name: Environmentally hazardous substance, liquid, N.O.S (EPOXY RESIN) Class : 9 UN/ID No : UN3082 Packing Group : III EmS : F-A, S-F
RID / ADR	Proper shipping name: Environmentally hazardous substance, liquid, N.O.S (EPOXY RESIN) Class : 9 UN/ID No : UN3082 Packing Group : III EAC : Y•3Z HIN : 90

Section 15: Regulatory Information

Regulatory Information Australia: Classified as hazardous according to criteria of National Occupational Health and Safety Commission (NOHSC).

Poisons Schedule 5S

National and or International Regulatory Information New Zealand: Classified as Hazardous according to the Hazardous substances (Classification) Regulations 2001.

Hazard Category Irritant. Sensitiser.

Section 16: Other Information

Contact Person/Point PRODUCT INFORMATION MANAGER: 0438 444 400
5/26 Access Crescent, Coolum Beach Qld 4573.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.