SECTION 1 : IDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER

Commercial Product Name	: CEMSEAL E100SL PART B
Relevant identified uses	: High-Performance Pigmented Epoxy Coating
Company/Undertaking	: Cemseal Industries Sdn. Bhd.
Address	: No.10, Jalan Emas 29, Taman Sri Putri, 81300 Skudai, Johor, Malaysia.
Tel No.	: +607-558 3320
Email	: info@cemseal.com

SECTION 2 : HAZARDS IDENTIFICATION

According to: CLASS Regulations 2013, Malaysia (adapted from UN GHS Rev. 3)

A. Classification of the substance or mixture

Acute toxicity (oral)	Category 4
Skin corrosion/irritation	Category 1C
Serious eye damage/irritation	Category 1C
Skin sensitization	Category 1
Specific target organ toxicity – Repeated exposure	Category 2

B. Label Elements

Pictogram:



Signal word: Danger

Hazard statement:

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary Statements:

(Prevention)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

(Response)	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in position comfortable for breathing.
P310	Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
(Storage)	
P405	Store locked up.
(Disposal)	
P501	Dispose of contents/container to appropriate waste site or reclaimer in accordance with local or national regulations.

SECTION 3 : COMPOSITION AND INFORMATION OF THE INGREDIENTS

A. Single product or Mixture: Mixture

B. Material consists of: Amine hardeners

Chemical Name	CAS No.	Content (%)
Polyamine hardener	Trade Secret	80 – 90
Polyetheramine hardener	Trade Secret	10 – 20

SECTION 4 : FIRST AID MEASURES

A. Description of first aid measures

Inhalation : Move person to fresh air and call for medical assistance immediately. If not breathing, give artificial respiration, if breathing is difficult, give oxygen. Keep at rest.

Skin Contact : In case of contact, immediately flush skin with large amounts of water and soap while removing contaminated clothing and shoes. If irritation persists, get medical attention.

Eye Contact : Immediately flush eyes with large amounts of water until irritation subsides. Remove contact lens. Obtain medical attention, preferably by an ophthalmologist, immediately.

Ingestion : DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Keep at rest. Get medical attention immediately.

B. Most important symptoms and effects, both acute and delayed

Eye and skin corrosion. Also refer to Section 11 - Toxicological Information.

C. Indication of any immediate medical attention and special treatment needed

Notes to Physician: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SECTION 5 : FIRE-FIGHTING MEASURES

A. Extinguishing media

Suitable Extinguishing Media : Water, foam, dry chemicals, carbon dioxide (CO_2).

B. Special Hazards Arising from The Substance or Mixture

Hazardous Combustion Products : Upon drying and reaching temperatures of combustion, produces corrosive and/or toxic fumes.

Unusual Fire and Explosion Hazards : Does not present any special fire or explosive hazards.

C. Recommended Fire Fighting Procedures

Special protective equipment for firefighters : Wear full protective clothing and NIOSH - approved self - contained breathing apparatus. Use water spray to cool fire - exposed surfaces and to protect personnel. If a leak or spill has not ignited, use water spray to disperse the vapors. If possible, isolate products from heat, electrical equipment, sparks and open flames. Avoid spraying water directly into storage containers. Closed containers may explode when exposed to extreme heat. Avoid spreading burning liquid with water, isolate liquid. Do not allow firefighting to enter drains or watercourses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures :

Wear appropriate protective equipment, e.g., respirators (R95 masks), eye protection (safety glasses), elbow-length Nitrile gloves and safety shoes. Avoid substance contact with the eyes. Do not inhale vapours. Ensure supply of fresh air in enclosed rooms.

B. Environmental precautions:

Eliminate sources of ignition. Keep public away. Contain spilled liquid with sand or other non-combustible absorbent materials. Wash area and prevent runoff into drains and sewerage system. Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.

C. Methods and material for containment and cleaning up:

Clean up all spills immediately. Absorb with materials such as sand, polypropylene fibre products, polyethylene fibre products. Remove residual with soap and hot water. Collect in suitable and properly labelled containers. Residual can be removed with solvent. See Section 13, Disposal Considerations, for additional information.

SECTION 7 : HANDLING AND STORAGE

A. Precautions for safe handling:

Use appropriate personal protective equipment. Keep out of reach of children.
Handle containers with care. Open slowly in order to control possible pressure release. Do not pressurize containers.
Do not ingest. Do not breathe in gas/fumes/vapour. Avoid contact with skin and eyes.
For personal protection, see section 8.
Use only in areas from which all naked lights and other sources of ignition have been excluded.
Take precautionary measures against static discharge.
Protect from frost and extremes of temperature.

B. Conditions for safe storage:

Keep containers tightly closed.
Containers that are opened should be properly resealed and kept upright to prevent leakage.

C. Storage stability

Store in cool, dry and well - ventilated place at temperature between 20°C to 40°C away from heat and sources of ignition.

SECTION 8 : EXPOSURE CONTROLS PERSONAL PROTECTION

A. Control parameters

Exposure: No ingredient listed - USECHH 2000, Malaysia.

B. Exposure controls

Engineering Measures/Controls	:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure eyewash stations and safety showers are close to the workstation location.
Respiratory Protection	:	Use of NIOSH - approved respirators with organic vapour cartridges is recommended or R95 mask.
Hand Protection	:	Use of solvent resistance type or chemical resistant type of protective gloves is recommended (eg. elbow-length Nitrile gloves).
Eye Protection	:	Use of safety glasses or goggles with side shields is recommended.
Skin / Body Protection	:	Wear protective material penetration overalls and safety shoes.

Other protection	:	Work site no smoking, eating and drinking water. After work, be sure to take a shower and change clothes. Pay attention to personal hygiene.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

A. Information on Basic Physical and Chemical Properties

Appearance	Liquid
Color	Clear Yellow
Odour	Slight odour
Odour threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	> 60 ˚C
Evaporation rate	Not available
Flammability (solid, gas	Not applicable
Lower flammability or explosive limit	Not available
Upper flammability or explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.03 g/mL
Solubility	Miscible in water
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	55 KU at 25 °C

B. Other Information

No additional physical and chemical parameters noted.

SECTION 10 : STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction under condition of normal use.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reaction will not occur.
Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, drill, grind or expose containers to heat or sources of ignition.
Hazardous decomposition products	:	Nitric acid. Ammonia. Nitrogen Oxides. Nitrogen oxide can react with water vapours to form corrosive nitric acid. Carbon Monoxide. Carbon Dioxide. Aldehydes. Flammable hydrocarbon fragments. Nitrosamine.

SECTION 11 : TOXICOLOGICAL INFORMATION

A.	**Acute toxicity**	:	555 mg/kg (oral) based on ingredients data and calculation
B.	**Skin corrosion/irritation**	:	Causes skin corrosion.
C.	**Serious eye damage/eye irritation**	:	Causes eye damage based on ingredients data.
D.	**Respiratory or skin sensitisation**	:	Causes skin sensitization based on ingredients data. Not expected to cause respiratory sensitization based on ingredients.
E.	**Germ cell mutagenicity**	:	No information available on the product.
F.	**Carcinogenicity**	:	No information available on the product.
G.	**Reproductive toxicity**	:	No information available on the product.
H.	**STOT - single exposure**	:	No information available on the product.
I.	**STOT - repeated exposure**	:	Product contains ingredients that may cause damage to organs through prolonged or repeated exposure
J.	**Aspiration toxicity**	:	No information available on the product.

SECTION 12 : ECOLOGICAL INFORMATION

A. Ecotoxicity:
No information available on the product.

B. Persistence and degradability:
No information available on the product.

C. Bio accumulative potential:
No information available on the product.

D. Mobility in Soil:
No information available on the product.

E. Results of PBT and vPvB assessment:
This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

F. Other adverse effects:
There is no ecotoxicological test data available on the product itself. The product should not be allowed to enter drains or water courses.

SECTION 13 : DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains and watercourses. Preferred methods of waste disposal are incineration or biological treatment in federal/state approved facility. Empty containers should be recycled or disposed through an approved waste management facility or licensed contractor.

SECTION 14 : TRANSPORTATION INFORMATION

	UN number	UN proper shipping name	Transport hazard class	Packing group	Environmental hazards
ADR/ RID	UN 2735	Polyamines, liquid, corrosive, n.o.s	8	III	No

IMO/ IMDG	UN 2735	Polyamines, liquid, corrosive, n.o.s	8	III	No
IATA/ ICAO	UN 2735	Polyamines, liquid, corrosive, n.o.s	8	III	No

SECTION 15 : REGULATORY INFORMATION

A. Occupational Safety and Health (DOSH)

- Occupational Safety and Health Act 1994 (Act 514)
- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013 (CLASS Regulations)
- Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000 (USECHH Regulations)

This product is subject to requirements on classification, labelling, Safety Data Sheet (SDS), and permissible exposure limits under the above regulations.

B. Department of Environment (DOE)

- Environmental Quality Act 1974
- Environmental Quality (Scheduled Wastes) Regulations 2005

This product may be subject to environmental control and disposal requirements depending on its classification as scheduled waste.

SECTION 16 : OTHER INFORMATION

A. Issuing date: Apr, 30, 2026

B. Version: E100SL(B)-260430

C. Other Information:

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility in observing existing laws and regulations.

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