

**CEMSEAL POLYUREA-H Part A**

**SECTION 1: IDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER**

Commercial Product Name : CEMSEAL POLYUREA PART A  
 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](mailto:info@cemseal.com)

**SECTION 2: HAZARDS IDENTIFICATION**

**A. Hazard Risk Classification**

- Health Hazards
  - Acute Toxicity (Inhalation: dust/mist): Category 4
  - Skin Corrosion/Irritation: Category 2
  - Serious eye damage/eye irritation: Category 2
  - Respiratory Sensitization: Category 1
  - Skin Sensitization: Category 1
  - Reproductive Toxicity: Category 2
  - Specific Target Organ Toxicity – Repeated Exposure: Category 1

**B. Label elements including precautionary statements.**

- Symbol:



- Signal Word: Danger
- Hazard Risk Statement

<b>H315</b>	Causes skin irritation
<b>H317</b>	May cause an allergic skin reaction
<b>H319</b>	Causes serious eye irritation
<b>H332</b>	Harmful if inhaled
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled
<b>H361</b>	Suspected of damaging fertility or the unborn child
<b>H372</b>	Cause damage to organs through prolonged or repeated exposure

- Precautionary Statement  
(Prevention)

<b>P201</b>	Obtain special instructions before use
<b>P202</b>	Do not handle until all safety precautions have been read and understood
<b>P260</b>	May cause or intensify fire; oxidizer
<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapors/spray
<b>P264</b>	Wash your handling region thoroughly after handling
<b>P270</b>	Do not eat, drink or smoke when using this product
<b>P271</b>	Use only outdoors or in a well-ventilated area

**CEMSEAL POLYUREA-H Part A**

<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection
<b>P281</b>	Use personal protective equipment as required
<b>P285</b>	In case of inadequate ventilation wear respiratory protection

(Response)

<b>P302+P352 IF ON SKIN</b>	Gently wash with plenty of soap and water.
<b>P304+P340 IF INHALED</b>	If breathing is difficult, remove the victim to fresh air and keep at rest in a comfortable position for breathing.
<b>P305+P351+P338 IF IN EYES</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
<b>P308+P313 IF exposed or concerned</b>	Get medical advice/attention.
<b>P312</b>	Call a POISON CENTER or doctor/physician if you feel unwell.
<b>P314</b>	Causes severe skin burns and eye damage
<b>P332+P313 IF skin irritation occurs</b>	Get medical advice/attention.
<b>P333+P313 IF skin irritation or rash occurs</b>	Get medical advice/attention.
<b>P337+P313 IF eye irritation persists</b>	Get medical advice/attention.
<b>P342+P311 IF experiencing respiratory symptoms</b>	Call a POISON CENTER or doctor/physician.
<b>P362</b>	May cause harm to breast-fed children
<b>P363</b>	Wash contaminated clothing before reuse.

(Storage)

<b>P405</b>	Store locked up.
-------------	------------------

(Disposal)

<b>P501</b>	Dispose of contents/container (in accordance with applicable law)
-------------	-------------------------------------------------------------------

C. Other Hazard-Risk which are not included in the classification criteria (NFPA classification)

NFPA ratings	Health	Fire	Reactivity
Chemical Name			
Polyurethane Prepolymer	No data available	No data available	No data available
Diocetyl Phthalate	1	1	0

**CEMSEAL POLYUREA-H Part A**

**SECTION 3: COMPOSITION AND INFORMATION OF THE INGREDIENTS**

- A. Single product or Mixture: Mixture
- B. Common chemical name of the product: Polyurethane resin (Liquid)

Chemical Name	Other name (Common name)	CAS No.	Content (%)
Polyurethane Prepolymer	Polyurethane Prepolymer	9048-57-1	88 - 98
Diocetyl Phthalate	Di(2-ehthyhexyl)	117-81-7	2 - 12

**SECTION 4: FIRST AID MEASURES**

**A. Eye contact**

Immediately flush with plenty of water for at least 20 minutes  
Get immediate medical advice/attention if irritation to eyes continues.

**B. Skin contact**

If skin irritation occurs, get medical advice/attention.  
Wash contaminated clothing before reuse.  
Remove contaminated clothing, wash thoroughly with soap and water  
Flush with plenty of water for at least 20 minutes.  
If you have minor skin contact, prevent the spread of contaminated place.

**C. Inhalation**

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.  
IF exposed or concerned: Get medical advice/attention.  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

**D. Ingestion**

IF exposed or concerned: Get medical advice/attention.  
IF necessary, don't administer artificial respiration by mouth-to-mouth. Use proper respiratory medical apparatus.  
IF vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person.  
Indication of immediate medical attention and notes for physician  
IF exposed: Call a POISON CENTER or doctor/physician and take emergency measures.

**SECTION 5: FIRE-FIGHTING MEASURES**

**A. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media	Foam, Carbon dioxide, Dry sand
Unsuitable extinguishing media	No data available
Large fire	Keep containers cool with water spray. Move container from fire area if you can do so without risk, use suitable extinguishing agent

## CEMSEAL POLYUREA-H Part A

---

- B. Specific hazards arising from the chemical**  
Materials from pyrolysis : May produce toxic fumes if burning  
Fire and explosion hazards Containers may explode when heated.
- C. Special protective equipment and precautions for fire– fighters**  
In the event of fire, wear self–contained breathing apparatus.  
Stay against the wind so as not to inhale chemicals or material from pyrolysis.  
Move container from fire area if you can do so without risk, use suitable extinguishing agent.
- 

### SECTION 6: ACCIDENTAL RELEASES MEASURES

- A. Personal precautions, protective equipment and emergency procedures**  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Immediately clean leaked material and allows prevention of item 8.  
Eliminate all sources of ignition.  
Stop leak if you can do so without risk.  
Make prevent the spread covered with plastic sheets.  
Avoid prohibited conditions & materials
- B. Environmental precautions and protective procedures**  
Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
- C. Methods and materials for containment and cleaning up**  
Stop leak. Dike and contain spill.  
Absorb with suitable material (e.g. dry sand or soil) and clean with water and cleaner.
- 

### SECTION 7: HANDLING AND STORAGE

- A. Precaution for safe handling**  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Keep the container closed when not in use.  
Avoid contact with skin and eyes.  
Wash your handling region thoroughly after handling.  
Avoid prohibited condition & materials.
- B. Conditions for safe storage**  
Keep away from heat, seal tightly to prevent moisture.

**CEMSEAL POLYUREA-H Part A**

**SECTION 8: EXPOSURE CONTROLS PERSONAL PROTECTION**

A. Control parameters (e.g. occupational exposure limit values, biological limit values)

Division	KOSHA	ACGIH	Biological Exposure Limits
Polyurethane Prepolymer	No data available	No data available	No data available
Dioctyl Phthalate	TWA : 5mg/m3 STEL : 10mg/m3	TWA : 5mg/m3	No data available

※Describe exposure standards of single material, as there is no data available for mixtures

B. Appropriate engineering controls

Use local ventilation or engineering controls as needed to maintain personnel exposure below the exposure limits.

C. Personal protective equipment

Respiratory protection: Wear respiratory protection tested and approved under appropriate government standards such as KOSHA

Eye protection : Wear approved chemical safety glasses or goggles

Hand protection : Wear approved chemical resistant glove that may protect hands from direct contact with chemical

Body protection : Wear approved chemical resistant clothes

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

A. Appearance liquid	Transparent or semitransparent
B. Odor	Aromatic odor
C. Odor Threshold	No data available
D. pH	No data available
E. Melting point/Freezing point	No data available
F. Initial boiling point/boiling range	No data available
G. Flash point (°C)	208
H. Evaporation rate	No data available
I. Flammability (solid, gas)	No data available
J. Upper/lower flammability or explosive limits	No data available
K. Vapor pressure	No data available
L. Solubility	Soluble in toluene, xylene, acetic acid
M. Vapor density	No data available
N. Specific gravity	1.05±0.05
O. Partition coefficient: n-octanol/water	No data available
P. Auto-ignition temperature	No data available
Q. Decomposition temperature	No data available
R. Viscosity[25°C,mPa.s(cps)]	400 ~ 800
S. Molecular weight	No data available

CEMSEAL POLYUREA-H Part A

SECTION 10: STABILITY AND REACTIVITY

- A. Chemical stability & Possibility of hazardous reaction   Moisture curing (If contact with moisture)  
May produce toxic fumes if burning
- B. Conditions to avoid   Avoid all sources (e.g. Heat, flame, spark) of ignition.  
Avoid contact with materials prohibited to mix
- C. Incompatible material   No data available
- D. Hazardous decomposition products   Toxic fumes

SECTION 11: TOXICOLOGICAL INFORMATION

**A. Information on the likely routes of exposure**

- Polyurethane Prepolymer   No data available
- Dioctyl Phthalate   May cause irritation

**B. Health hazards information**

- Acute toxic

	Oral	Dermal	Inhalation
Polyurethane Prepolymer	No data available	No data available	No data available
Dioctyl Phthalate	LD50 3000 mg/kg Rat	LD50 25000 mg/kg Rabbit	LC50 > 10.62 mg/L Rat

- Skin corrosion/irritation

Polyurethane Prepolymer	No data available
Dioctyl Phthalate	Mildly irritating; Not a sensitizer (guinea Pig)

- Serious eye damage/eye irritation

Polyurethane Prepolymer	No data available
Dioctyl Phthalate	500mg, 24hrs, Rabbit

- Respiratory sensitization

Polyurethane Prepolymer	No data available
Dioctyl Phthalate	Have been reported to cause asthma in humans

- Skin sensitization

Polyurethane Prepolymer	No data available
Dioctyl Phthalate	Irritation(rabbit): Mildly irritating; Not a sensitizer (guinea pig)

CEMSEAL POLYUREA-H Part A

- Carcinogenicity:

	KOSHA	IARC	OSHA	ACGIH	NTP	EU CLP
Polyurethane Prepolymer	N/A	N/A	N/A	N/A	N/A	N/A
Diethyl Phthalate	N/A	2	Group 2B	N/A	A3	R

- Germ Cell Mutagenicity

Polyurethane Prepolymer	No data available
Diethyl Phthalate	No data available

- Reproductive toxicity

Polyurethane Prepolymer	No data available
Diethyl Phthalate	Have been reported to reduce the number of births in teratogenicity testing of mice

- Specific target organ toxicity (single exposure)

Polyurethane Prepolymer	No data available
Diethyl Phthalate	No data available

- Specific target organ toxicity (repeated exposure)

Polyurethane Prepolymer	No data available
Diethyl Phthalate	No data available

- Aspiration hazard

Polyurethane Prepolymer	No data available
Diethyl Phthalate	No data available

**SECTION 12: ECOLOGICAL INFORMATION**

A. Aquatic and terrestrial ecotoxicity

	Fishes	Crustacea	algae
Polyurethane Prepolymer	No data available	No data available	No data available
Diethyl Phthalate	LC50, 0.3mg/L, 96hr	EC50, 0.133mg/L, 48hr Daphnia pulex	No data available

B. Persistence and degradability

	Persistence	Degradability
Polyurethane Prepolymer	No data available	No data available
Diethyl Phthalate	5.03 log Kow	No data available

**CEMSEAL POLYUREA-H Part A**

---

C. Bio accumulative potential

	Accumulation	Biodegradability
Polyurethane Prepolymer	No data available	No data available
Diocetyl Phthalate	840	62(%), 28 days

D. Mobility in soil

Polyurethane Prepolymer	No data available
Diocetyl Phthalate	No data available

E. Other adverse effects

Polyurethane Prepolymer	No data available
Diocetyl Phthalate	No data available

---

**SECTION 13: DISPOSAL CONSIDERATIONS**

A. Disposal methods

Dispose of contents and containers in accordance with prescribed manners in the Wastes Management Act.

B. Disposal precaution (including the disposal method of contaminated container and packaging)

Dispose of contents and containers in accordance with prescribed manners in the Wastes Management Act.

---

**SECTION 14: TRANSPORTATION INFORMATION**

- |                                                                                                                                                              |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| A. UN number                                                                                                                                                 | Not applicable |
| B. UN proper shipping name                                                                                                                                   | Not applicable |
| C. Transport hazard class                                                                                                                                    | Not applicable |
| D. Packing group                                                                                                                                             | Not applicable |
| E. Marin pollution                                                                                                                                           | Not applicable |
| F. Special precaution which a user to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises |                |
| • Emergency action(fire): F-A                                                                                                                                |                |
| • Emergency action(outflow) : Not applicable                                                                                                                 |                |

**CEMSEAL POLYUREA-H Part A**

**SECTION 15: REGULATORY INFORMATION**

- A. Industrial Safety & Health Act : Regulated hazardous substance(Article39, Enforcement Decree: Article81)
- B. Toxic Chemicals Control Act: Not applicable
- C. Dangerous Material Safety Control Act: Not applicable
- D. Wastes Management Act: Designated waste
- E. Other requirements in domestic and other countries
  - *Domestic Regulation*  
Persistent Organic Pollutant Control Act    Not applicable
  - *Other Countries Regulation*

EU Classification Code	No data available
EU Risk Phrases	No data available
EU Safety Phrases	No data available
OSHA regulation	No data available
CERCLA 103 regulation	No data available
EPCRA 302,304,313 regulation	No data available
Rotterdam Convention	No data available
Stockholm Convention	No data available
Montreal Protocol	No data available

**SECTION 16: OTHER INFORMATION**

- A. Issuing date: May 29, 2025
- B. Version: Polyurea-H (A) – 250529
- 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.

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. SUCH INFORMATION IS TO THE BEST OF CEMSEAL KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS FOR THE DATE INDICATED. HOWEVER, NO REPRESENTATION, WARRANTY OR GUARANTEE IS MADE AS TO ITS ACCURACY OR COMPLETENESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY AND COMPLETENESS OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.