

CEMSEAL PU-SC

SECTION 1: INDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER

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SECTION 2: HAZARDS IDENTIFICATION

A. Hazard Risk Classification

- Health Hazards
 - Skin Corrosion/Irritation: Category 2
 - Carcinogenicity: Category 1B
 - Specific Target Organ Toxicity - Single Exposure: Category 3 (respiratory tract irritation)
 - Specific Target Organ Toxicity - Repeated Exposure: Category 2
 - Hazardous to Aquatic Environment: Category Chronic 3

B. Label elements including precautionary statements

- Symbol:



- Signal Word: Danger
- Hazard Risk Statement

H315	Causes skin irritation
H335	May cause respiratory irritation
H350	May cause cancer
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects

- Precautionary Statement
(Prevention)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash your handling region thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.

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(Response)

P302+P352 IF ON SKIN	Gently wash with plenty of soap and water.
P304+P340 IF INHALED	Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313 IF exposed or concerned	Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P332+P313 If skin irritation occurs	Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

(Storage)

P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

(Disposal)

P501	Dispose of contents/container (in accordance with applicable law)
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C. Other Hazard Risk which are not included in the classification criteria (NFPA classification)

Chemical Name / NFPA Ratings	Health	Fire	Reactivity
Polyurethane Prepolymer	No data available	No data available	No data available
Calcium Carbonate	2	0	0
Diocetyl Phthalate	1	1	0

SECTION 3: COMPOSITION AND INFORMATION OF THE INGREDIENTS

1. Single product or Mixture: Mixture
2. Common chemical name of the product: Not available

Chemical Name	Other name	CAS No.	Content (%)
Polyurethane Prepolymer	Polyurethane Prepolymer	9057-91-4	30 – 40
Calcium Carbonate	Carbonic Acid, Calcium Salt	471-34-1	47 – 53
Diocetyl Phthalate	Di (2-ehthylhexyl) Phthalate	117-81-7	10 – 13

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SECTION 4: FIRST AID MEASURES

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Skin contact

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash 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 places.

Inhalation

IF INHALED: If breathing is difficult, remove the 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.

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

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.

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SECTION 6: ACCIDENTAL RELEASES MEASURES

A. Personal precautions, protective equipment and emergency procedures.

- Avoid breathing dust/fume/gas/mist/vapours/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 and 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 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/vapours/spray.
- Contaminated work clothing should not be allowed out of the workplace.
- Keep 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.
- Store in a well-ventilated place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS PERSONAL PROTECTION

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
Calcium Carbonate	TWA: 10mg/m ³	No data available	No data available
Diocetyl Phthalate	TWA: 5mg/m ³ STEL: 10mg/m ³	TWA: 5 mg/m ³	No data available

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

A. Appropriate engineering controls

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

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B. 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 gloves that may protect hands from direct contact with chemical
- Body protection: Wear approved chemical resistant clothes

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| 1. Appearance | Coloured liquid |
| 2. Odor | Aromatic odor |
| 3. Odor Threshold | No data available |
| 4. pH | No data available |
| 5. Melting point/Freezing point | No data available |
| 6. Initial boiling point/boiling range | No data available |
| 7. Flash point (°C) | 118 |
| 8. Evaporation rate | No data available |
| 9. Flammability (solid,gas) | No data available |
| 10. Upper/lower flammability or explosive limits | No data available |
| 11. Vapor pressure | No data available |
| 12. Solubility | Soluble in toluene, propylene carbonate, acetic acid |
| 13. Vapor density | No data available |
| 14. Specific gravity | 1.35 ± 0.05 |
| 15. Partition coefficient: n-octanol/water | No data available |
| 16. Auto-ignition temperature | No data available |
| 17. Decomposition temperature | No data available |
| 18. Viscosity [25°C, mPa.s(cps)] | 10,000-15,000 |
| 19. Molecular weight | No data available |

SECTION 10: STABILITY AND REACTIVITY

A. Chemical stability & Possibility of hazardous reaction	Stable at normal temperature and pressure conditions Containers may explode when heated. 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	May produce irritative, toxic and corrosive gas if burning.

SECTION 11: TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diocetyl Phthalate	May cause irritation. May cause Nausea/vomiting/headache/ symptoms of drunkenness. May cause eye damage.

B. Health hazards information

- Acute toxic

	Oral	Dermal	Inhalation
Polyurethane Prepolymer	LD50>2000 mg/kg Rat	No data available	No data available
Calcium Carbonate	LD50 6450 mg/kg Rat	No data available	No data available
Diocetyl Phthalate	LD50 30000 mg/kg Rat	LD50 25000 mg/kg Rabbit	LC50 > 10.62 mg/L Rat

- Skin corrosion/irritation

Polyurethane Prepolymer	No data available
Calcium Carbonate	Skin - rabbit - No skin irritation - OECD Test Guideline 404
Diocetyl Phthalate	Mildly irritating; Not a sensitizer (guinea Pig)

- Serious eye damage/eye irritation

Polyurethane Prepolymer	Rabbit - Mild eye irritation
Calcium Carbonate	No data available
Diocetyl Phthalate	Have been reported to cause asthma in humans

- Respiratory sensitization

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diocetyl Phthalate	Have been reported to cause asthma in humans

- Skin sensitization

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diocetyl Phthalate	Irritation (rabbit): Mildly irritating; Not a sensitizer (guinea Pig)

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- Carcinogenicity

Division	KOSHA	IARC	OSHA	ACGIH	NTP	EU CLP
Polyurethane Prepolymer	No data available					
Calcium Carbonate	No data available					
Diethyl Phthalate	No data available	2	Group 2B	No data available	A3	R

- Germ Cell Mutagenicity

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diethyl Phthalate	No data available

- Reproductive toxicity

Polyurethane Prepolymer	No data available
Calcium Carbonate	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
Calcium Carbonate	No data available
Diethyl Phthalate	No data available

- Specific target organ toxicity (repeated exposure)

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diethyl Phthalate	No data available

- Aspiration hazard

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diethyl Phthalate	No data available

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SECTION 12: ECOLOGICAL INFORMATION

A. Aquatic and terrestrial ecotoxicity

	Fishes	Crustacea	Algae
Polyurethane Prepolymer	LC50 1700 mg/L 96h Lepomis macrochirus	No data available	No data available
Calcium Carbonate	LC50 > 56000 mg/L 96h	No data available	EC50 22000 mg/L 96 h
Diethyl Phthalate	LC50 0.3 mg/L 96h	EC50 0.133 mg/L 48 h Daphnia pulex	No data available

B. Persistence and degradability

	Persistence	Degradability
Polyurethane Prepolymer	Not applicable	No data available
Calcium Carbonate	No data available	No data available
Diethyl Phthalate	5.03 log Kow	No data available

C. Bio accumulative potential

	Accumulation	Biodegradability
Polyurethane Prepolymer	Not applicable	No data available
Calcium Carbonate	BCF 3.162	No data available
Diethyl Phthalate	840	62 (%) 28 days

D. Mobility in soil

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diethyl Phthalate	No data available

E. Other adverse effects

Polyurethane Prepolymer	No data available
Calcium Carbonate	No data available
Diethyl Phthalate	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

A. Disposal method

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

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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 No data available
- F. Special precaution which a user to be aware of or needs to comply with in connection with in connection with transport or conveyance either within or outside their premises
 - Emergency action(fire): F-A
 - Emergency action(outflow): Not applicable

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 Regulations
 - Persistent Organic Pollutant Control Act Not applicable
 - Other Countries Regulations
 - 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

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SECTION 16: OTHER INFORMATION

- A. Issuing date: June 17, 2025
- B. Version: PU-SC-250617
- 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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