SECTION 1 : IDENTIFICATION OF THE CHEMICAL AND OF THE SUPPLIER

Commercial Product Name	: CEMSEAL PRIMER PU-S
Relevant identified uses	: 1K Polyurethane Primer
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

A. Classification of the substance or mixture

Hazard Class	Hazard Category
Skin Corrosion/Irritation	2
Flammable Liquids	2
Serious eye damage/eye irritation	2
Aspiration Hazard	2
Hazardous to Aquatic Environment	Chronic 2
Reproductive Toxicity	1B
Specific Target Organ Toxicity – Single Exposure	1
Specific Target Organ Toxicity – Single Exposure	3 (narcotic effects)
Specific Target Organ Toxicity – Repeated Exposure	1

B. Label Elements

Pictogram:



Signal word: Danger

Hazard statement (s):

H225	Highly flammable liquid and vapour.
H305	May be harmful if swallowed and enter airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H360	May damages fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

(Prevention)

P201	Obtain special instructions before use.

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapors'/spray.
P264	Wash your handling region thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well- ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/clothing/eye protection/face protection
P281	Use personal protective equipment as required.
(Response)	
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P307+P311	IF exposed: Call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Causes severe skin burns and eye damage.
P331	Do NOT induce vomiting.
P332+P313	IF skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse
P370+P378	In case of fire: Use suitable extinguishing agent for extinction.
P391	Collect spillage.
(Storage)	
P403+P233	Store in a well-ventilated place. Keep the container tightly closed.
P403+P233	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
(Disposal)	
P501	Dispose of contents/container (in accordance with applicable law).

C. Other Hazard Risk (Not included in the classification criteria - NFPA classification)

NFPA Ratings	Health	Fire	Reactivity
Polyurethane Prepolymer	No Data Available	No Data Available	No Data Available
Xylene	No Data Available	No Data Available	No Data Available
2-Ethoxyethyl acetate	2	2	2
Methyl Ethyl Ketone	1	1	1

SECTION 3 : COMPOSITION AND INFORMATION OF THE INGREDIENTS

A. Single product or Mixture: Mixture

B. Common chemical name of the product: Phenol resin (Liquid)

C. Classification of hazardous components, according to GHS:

Chemical Name	CAS Number	Weight, %
Polyurethane Prepolymer	9057-91-4	35 – 45
Xylene	1330-20-7	45 – 55
2-Ethoxyethyl acetate	111-15-9	3 – 7
Methyl Ethyl Ketone	78-93-3	2 – 6

SECTION 4 : FIRST AID MEASURES

A. Description of necessary first aid measures:

Inhalation : Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in comfortable position for breathing.

Skin Contact : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Remove contaminated clothing. Keep away the contaminated area. If you have minor skin contact, Prevent the spread of contaminated place. If scalded, immediately cool the area with cold water as long as possible, do not remove stuck clothing on the skin.

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.

Ingestion : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF necessary, administer artificial respiration by proper respiratory medical apparatus. Don't administer artificial respiration by mouth-to-mouth. IF vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person.

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

IF exposed: Call a POISON CENTER or doctor/physician and take emergency measures.

SECTION 5 : FIRE-FIGHTING MEASURES

A. 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. Special Hazards Arising from The Substance or Mixture

Materials from pyrolysis	:	May produce toxic fumes if burning
Fire and explosion hazards	:	Containers may explode when heated.

C. Recommended Fire Fighting Procedures

Special protective equipment for firefighters	:	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 RELEASE MEASURES

A. Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment e.g., respirators (R95 masks), eye protection (safety glasses), elbow-length Nitrile gloves and safety shoes.
Avoid substance contact with 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 spill with absorbent and inert material, then place in container.
Disposal in accordance with local/national regulations.

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.
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. Condition for safe storage, including any incompatibilities :

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

Occupational exposure

Division	KOSHA	ACGIH	Biological exposure limits
Polyurethane Prepolymer	No data available	No data available	No data available
Xylene	TWA - 100ppm 435mg/m^3 STEL - 150ppm 655mg/m^3 Dimethylbenzene (ortho, meta, para isomer)	TWA 100 ppm STEL 150 ppm	No data available
2-Ethoxyethyl acetate	TWA - 5ppm 27mg/m^3	TWA 5 ppm	No data available
Methyl Ethyl Ketone	TWA - 200ppm 590mg/m^3 STEL - 300ppm 885mg/m^3	TWA 200 ppm STEL 300 ppm	2 mg/L (MEK in urine, Picking after work)

B. Exposure controls

Appropriate engineering : Use local ventilation or engineering controls as needed to maintain personnel exposure below the exposure limits. Wash hands before breaks and at the end of workday.

Eye / face protection : Use of safety glasses or goggles with side shields is recommended.

Hand protection : Use of solvent resistance type or chemical resistant type of protective gloves is recommended (eg. elbow-length Nitrile gloves).

Other skin and body : Wear protective material penetration overalls and safety shoes.

Hygiene measures : No specific hygiene procedures are recommended, but good personal hygiene practices should always be observed when working with chemical products. These precautions are for room temperature handling.

Respiratory protection : Use of NIOSH - approved respirators with organic vapour cartridges is recommended or R95 mask.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Light yellowish liquid
Odour :	No information available
Odour Threshold :	No information available
Solubility :	Soluble in toluene, xylene, acetic acid
VOC% :	No information available
Viscosity :	> 300 mPa.s
Specific gravity :	0.97±0.05 g/mL
Flash Point :	21℃
pH :	No information available
Melting Point :	No information available
Boiling Point :	No information available
Boiling Range :	No information available
LEL/UEL :	No information available
UEL :	No information available

SECTION 10 : STABILITY AND REACTIVITY

A. Chemical stability & possible to hazardous reactions:
Moisture curing (If contact with moisture). May form an explosive mixture a flash point or higher temperature.Containers may explode when heated. Highly flammable liquid : Easily ignites by heat, sparks, flames burn. May produce irritative, toxic and corrosive gas if burning.

B. Conditions to avoid:
Keep away from heat /sparks/open flames /hot surfaces. No smoking.

C. Incompatible materials: Strong oxidizing agents, flammable.

D. Hazardous decomposition products: May produce irritative, toxic and corrosive if burning.

SECTION 11 : TOXICOLOGICAL INFORMATION

A. Information on the likely routes of exposure

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

B. Health hazards information

Acute toxic

	Oral	Dermal	Inhalation
Polyurethane Prepolymer	No Data Available	No Data Available	No Data Available
Xylene	LD50 3500 mg/kg Rat	LD50 ≥ 4350 mg/kg Rabbit	Vapour LC50 6700 ppm 4hr Rat
2-Ethoxyethyl acetate	LD50 2700 mg/kg Rat	No Data Available	LC50 12.1 mg/L Rat
Methyl Ethyl Ketone	LD50 2737 mg/kg Rat	LD50 6480 mg/kg Rabbit	Vapour LC50 32 mg/L 4hr Mouse

Skin corrosion/irritation

Polyurethane Prepolymer	No Data Available
Xylene	Causes moderate irritation (Rabbit)
2-Ethoxyethyl acetate	Skin - rabbit - Open irritation test
Methyl Ethyl Ketone	Skin - rabbit - Skin irritation - 24 h

Serious eye damage/eye irritation

Polyurethane Prepolymer	No data available
Xylene	Causes moderate irritation. (Rabbit)
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

Respiratory sensitization

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

Skin sensitization:

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

Carcinogenicity:

Polyurethane Prepolymer	OSHA	ACGIH	NTP	EU CLP
Polyurethane Prepolymer	No data available	No data available	No data available	No data available
Xylene	Group 3	No data available	A4	No data available
2-Ethoxyethyl acetate	No data available	No data available	No data available	No data available
Methyl Ethyl Ketone	No data available	No data available	No data available	No data available

Germ Cell Mutagenicity

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

Reproductive Toxicity

Polyurethane Prepolymer	No data available
Xylene	Appears Fetal weight loss, hydrocephalus (Mouse)
2-Ethoxyethyl acetate	May cause congenital malformation in the fetus. Presumed human reproductive toxicant May cause reproductive disorders.
Methyl Ethyl Ketone	No data available

Specific target organ toxicity (single exposure)

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	May cause drowsiness or dizziness

Specific target organ toxicity (repeated exposure)

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

Aspiration hazard

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

SECTION 12 : ECOLOGICAL INFORMATION

Aquatic and terrestrial ecotoxicity

	Fishes	Crustacea	Algae
Polyurethane Prepolymer	No data available	No data available	No data available
Xylene	LC50 3.3 mg/L 96hr	LC50 190 mg/L 96hr	No data available
2-Ethoxyethyl acetate	LC50 40 mg/L 96hr	No data available	No data available
Methyl Ethyl Ketone	LC50 3220 mg/L 96hr Pimephales promelas	EC50 > 500mg/L 96hr Daphnia Magna	EC50 > 500mg/L 96hr Skeletonema costatum

Persistence and degradability

	Persistence	Degradability
Polyurethane Prepolymer	No data available	No data available
Xylene	No data available	No data available
2-Ethoxyethyl acetate	log Kow 0.59	No data available
Methyl Ethyl Ketone	log Kow 0.29	No data available

Bio accumulative potential

	Accumulation	Biodegradability
Polyurethane Prepolymer	No data available	No data available
Xylene	No data available	39 (%)
2-Ethoxyethyl acetate	No data available	86.9 (%)
Methyl Ethyl Ketone	No data available	89 (%) 20 days

Mobility in soil

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	No data available

Other adverse effects

Polyurethane Prepolymer	No data available
Xylene	No data available
2-Ethoxyethyl acetate	No data available
Methyl Ethyl Ketone	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 1263

B. UN proper shipping name Flammable Liquid

C. Transport hazard Class 3

D. Packing group 11

E. Marin pollution No data available

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-E
- Emergency action(outflow) : S-D

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: May 13, 2026

B. Version: PRIMER PU-S-260513

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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