

Conesco PU 500 Safety Data Sheet

Section 1: Material and Supply Company Identification

Product Name: Conesco PU 500

Other Means of Identification: PU-500 Polyurethane foam

Recommended Use of Chemical & Restrictions on Use: water reactive single part polyurethane for sealing non-structural cracks

Importer: Permotech
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ABN: 42 651 093 355

[Manufactured by Conesco No. 501 Greenvillage, 83-1, Ducksung-ri, Geumho-Eup, Youchcheung City, Gyongbuk, South Korea]

Poisons Information Centre: 13 11 26 (National Hotline)

Section 2: Hazards Identification

This product is hazardous according to health criteria of Safe Work Australia. Not classified as dangerous goods.



Signal Word: Danger

Hazard Classification:

Acute toxicity – category 2

Carcinogenicity – category 2

Eye irritation – category 2A

Skin irritation – category 2

Specific target organ toxicity (repeated exposure) – category 1

Respiratory sensitization – category 1

Skin sensitization – category 1

Specific target organ toxicity (single exposure) category 3

Hazardous to the aquatic environment (Acute) – category 1

Reproductive Toxicity – category 1B

Hazard Statements:

H315 – Causes skin irritation

H317 – May cause an allergic skin reaction

H319 – Causes serious eye irritation

H330 – Fatal if inhaled

H334 – May cause allergy or asthma symptoms or breathing difficulties if inhaled

H335 – May cause respiratory irritation

H400 – Very toxic to aquatic life

H360 - May damage the unborn child. Suspected of damaging fertility

General Precautionary Statements:

P101 – Do not handle until all safety precautions have been read and understood.

P233 – Keep container tightly closed.

P260 – Do not breath mist, vapours or spray.

P264 – Wash hands, face, and all exposed skin thoroughly after handling.

P271 – Use only outdoors or in a well-ventilated area.

P272 – Contaminated work clothing should not be allowed out of the workplace.

P280 – Wear protective clothing, gloves, eye/face protection and suitable respiratory protection as required.

P285 – In case of inadequate ventilation wear respiratory protection.

Response Precautionary Statements:

P301 + P315 – IF SWALLOWED: Get immediate medical attention.

P303 + P361 + P353 – IF ON SKIN (or hair): Take off contaminated clothing and wash before reuse. Rinse skin with water/shower.

P304 + P340 – IF INHALED: Remove victim to fresh air and keep 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.

P312 – Call the Poison Centre Hotline on 13 11 26 or doctor/physician if you feel unwell.

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 used.

P370 + P378 – In case of fire: use foam / water spray / fog to extinguish.

Storage Precautionary Statements:

P403 + P233 – Store in a well-ventilated place. Keep container tightly closed.

P405 – Store locked up.

Disposal Precautionary Statements:

P501 – Dispose of contents / container in accordance with local regulations.

Section 3 – Composition and Information on Ingredients

Disclosure of Ingredient and Proportions

Ingredient	Proportion	CAS No.
Isocyanic Acid, Polymethylenepolyphenylene ester	45%	9016-87-9
Polypropylene Glycol	38%	25322-69-4
Dibutyl Phthalate	17%	84-74-2

Section 4 – First-Aid Measures

For medical emergency as a result of poisoning (i.e. victim has collapsed or stopped breathing), phone 000 for an ambulance.

Inhalation: Urgent medical attention is required if the liquid is inhaled. Seek medical attention immediately. The odour/smell of the product indicates the vapour, which is hazardous. Move away from exposure and protect others from exposure. Asthmatic-type symptoms may develop immediately or over several hours. Professional medical attention is required.

Note: The vapours from the product heated to high temperature (such as from fire) are highly toxic.

Skin contact: If skin or hair contact occurs, immediately remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre (13 11 26) or a Doctor or for 15 minutes; and transport to Doctor or Hospital.

Eye contact: Immediately irrigate with copious amounts of water for 15 minutes. Eyelids to be held open. Urgently seek medical assistance. Transport to hospital or medical centre.

Ingestion: Urgent medical attention is required. If it can be performed immediately after ingestion, INDUCE vomiting with fingers down the back of the throat ONLY IF CONCIIOUS. Lean patient forward or place on left side – maintain open airway and prevent aspiration.

Notes to Doctor: Treat symptomatically. The nature of reaction of this product with water is to expand in volume by 18 times with a foaming time of approximately 330 seconds. Effects on the body may be delayed – medical supervision recommended for 48 hours. Contains hazardous isocyanates, and phthalates.

Section 5 – Fire-fighting Measures

Suitable extinguishing media: Foam, water spray or fog in copious amounts. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water in a jet.

Specific hazards: Material expands in contact with water – especially if the product is hot, which increases the speed of reaction. Combustible material, containers may explode if heated.

Combustion products are highly toxic (carbon dioxide, isocyanates, small amounts of hydrogen cyanides, nitrogen oxides and other pyrolysis products).

Fire-fighting Further Advice: Material may emit toxic fumes when burning – wear self-contained breathing apparatus in addition to usual fire-fighting PPE. Combustible material – drums may explode if heated – used water spray to cool unopened containers from a protected area with as much distance as practicable.

Section 6 – Accidental Release Measures

Avoid contact with spilled or released material. Shut off leaks, if possible, without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Remove all sources or ignition in the surrounding area.

Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth, or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location but using fog sprays, for example. Ventilate the contaminated area thoroughly.

Small Spills: Wearing appropriate Personal Protective Equipment, wipe up spills, seal and dispose of contaminated waste.

Large Spills: Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterways using sand, earth, or other barriers. Attempt to disperse the vapour or direct its flow to a safe location using fog spray, for example. Ventilate contaminated area thoroughly.

Section 7 – Handling and Storage, including how the chemical may be safely used

Handling: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink, or smoke when using product or in the vicinity of the product.

Storage: Store in a cool, dry, well-ventilated place out of direct sunlight, and well away from potential ignition sources / other sources of heat. Do not store near strong oxidants. Keep drum lids tightly sealed when not in use.

Section 9 – Exposure controls and personal protection

National occupational exposure limits:

Ingredient	CAS No.	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Isocyanates	9016-87-9	--	0.02	--	0.07
Dibutyl Phthalate	84-74-2	0.05	0.58	--	--

Dibutyl Phthalate is presumed to have carcinogenic potential in humans.

Isocyanates are known to cause sensitisation and create greater risks to sensitised workers. Sensitised workers may also react to levels of the substance below the exposure standard and should not be exposed further to the substance.

Engineering measures: Have adequate ventilation continuously. Exhaust ventilation may be required in certain environments, especially at elevated temperatures as mists or vapours may be generated and airborne concentration should be kept as low as reasonably practicable (and less than the exposure limit).

Personal protection equipment:

- Safety goggles.
- Gloves (impervious and solvent resistant).
- Respiratory protection – mask and filter for organic gases and vapours (boiling point > 65°C). Respirators to comply with AS1716.
- Clothing – impervious and solvent resistant overalls to the extent that use may splash exposed skin.

- Safety shoes.

General Industrial Hygiene:

- Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.
- Keep away from food, drink, and animal feeding stuffs.
- Avoid skin and eye contact and inhalation of mists and vapours. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9 – Physical and Chemical Properties

Appearance: Brown liquid

Odour: Slight [DO NOT INHALE]

Odour Threshold: Not available

pH: Not available

Melting Point/Freezing Point: Not available

Flash Point: 196°C

Evaporation Rate: Not available

Flammability: Not available

Upper/Lower Flammability: Not available

Vapour Pressure: Not available

Vapour Density: > 1

Relative Density (Specific Gravity): 0.9 – 1.1

Solubility: Insoluble in water (but reactive) however, soluble in benzenes, acetone

Partition Coefficient: n-octanol/water: Not available

Auto-ignition Temperature: Not available

Decomposition temperature: Not available

Viscosity: < 100 centipoises (25°C)

Section 10 – Stability and Reactivity

Reactivity: The product reacts with water (including atmospheric moisture) producing carbon dioxide to form a solid mass, many times the original volume of liquid.

Chemical Stability: stable when kept under recommended conditions of storage, which is between 5°C - 35°C, in a firmly sealed container kept away from hazards in a well-ventilated, secure location.

Hazardous Reactions: Adverse reactions with strong oxidizing agents, , alcohols, acids, alkalis, amines, metallic compounds, excessive heat / flame.

Conditions to avoid: extreme heat and incompatible materials.

Incompatible Materials: oxidants, acids, alkalis, alcohols, amines, and heat/ignition sources.

Hazardous Decomposition Products: toxic gases – oxides, cyanides, other hydrocarbons.

Section 11 – Toxicological Information

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Acute Effects

Inhalation: May cause central nervous system depression, resulting in dizziness, light-headedness, headache, nausea, and loss of coordination. Continuous inhalation may result in unconsciousness and death.

Skin contact: Contact with skin may cause a burning sensation, redness, swelling and blisters.

Ingestion: May cause coughing, choking, wheezing, difficulting breathing, chest congestion, shortness of breathe and/or fever. The onset of these systems may be delayed for several hours after exposure.

Eye contact: May cause a burning sensation, redness, swelling, and blurred vision.

Section 12 – Ecological Information

Avoid contaminating waterways.

Acute Toxicity: Toxic [1 < LC/EC/IC50 <= 10mg/L]

Aquatic Invertebrate: Toxic [1 < LC/EC/IC50 <= 10mg/L]

Algae: Toxic [1 < LC/EC/IC50 <= 10mg/L]

Micro-organisms: Expected to be harmful

Chronic Toxicity: Data not available (for any animal class)

Persistence and degradability: Biodegradable

Bio accumulative potential: Data not available

Mobility in soil: reacts with water, may contaminate soil and groundwater

Section 13 – Disposal Considerations

Person conducting disposal should ensure that appropriate personal protection equipment is used (refer Section 8).

Unused product should be reacted in small quantities. Do not seal containers of waste material until reaction is complete.

Dispose in accordance with local, region, national and International Regulations.

Section 14 – Transport Information

Not regulated as dangerous goods for transport.

Section 15 – Regulatory Information

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16 – Any Other Relevant Information

Safety Data Sheets are updated to facilitate inclusion of improved information or as required by legislation. Please ensure you have a current copy.