



Safety Data Sheet

E4E-PU-HYBRID B

SECTION 1. IDENTIFICATION

Product identifier	E4E-PU-HYBRID B
Other Means of Identification	None
Recommended Use	Concrete floor coating
Restrictions on Use	Unknown
Supplier Identifier	PA Epoxy
Emergency Phone No.	

SECTION 2. HAZARD IDENTIFICATION

Classification	Acute Toxicity, Inhalation-mist Category 4 Skin Sensitization Category 1B Skin Corrosion/irritation Category 2 Serious eye damage/irritation Category 2B Respiratory sensitization Category 1 Carcinogenicity Category 2 Specific target organ toxicity-single exposure Category 3- respiratory tract irritation Specific target organ toxicity-repeated exposure Category 2- by inhalation
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Label Elements



Signal Word

DANGER

Hazard Statements

H320: Causes eye irritation.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H351: Suspected of causing cancer.
H373: May cause damage to organs (olfactory) through prolonged or repeated exposure (inhalation).



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Precautionary statements

Prevention:

P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves. P271 Use only outdoors or in a well-ventilated area. P260 Do not breathe dust/gas/mist/vapours. P261 Avoid breathing mist. P284 In case of inadequate ventilation wear respiratory protection. P272 Contaminated work clothing should not be allowed out of the workplace. P264 Wash with plenty of water and soap thoroughly after handling. P312 Call a POISON CENTER/doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician. P314 Get medical advice/attention if you feel unwell. P303 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water. P333 + P311 If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician. P332 + P313 If skin irritation occurs: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash before reuse. P337 + P311 If eye irritation occurs: Call a POISON CENTER or doctor/physician. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container into safe container in accordance with local, regional or national regulations.

Other Hazards: Unknown

SECTION 3. COMPOSITION

Chemical Name	CAS No.	% concentration
diphenylmethane-4,4'-diisocyanate (MDI)	101-68-8	25 - 50 %
p-MDI	9016-87-9	50 - 75 %
Methylenediphenyl diisocyanate	26447-40-5	3 - 7 %
1,3-diazetidone-2,4-dione, 1,3-bis[4-[(4-isocyanatophenyl)methyl]phenyl]-	17589-24-1	1 - 3 %
Isocyanic acid, polymethylenepolyphenylene ester, polymer with alpha-hydro-omega-hydroxypoly(oxy-1,2-ethanediyyl)	57636-09-6	1 - 3 %

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation:

IF INHALED: Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Skin Contact:

Flush with soap and water for a minimum of 15 minutes. Consult a physician if irritation persists or you feel unwell.

Eye Contact:

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.



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Ingestion:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Immediate medical attention required.

Most Important Symptoms and Effects, Acute and Delayed**If inhaled:**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

If on skin:

Harmful if in contact with the skin. Causes skin irritation. Exposure may produce an allergic reaction

If in eyes:

Causes serious eye damage.

If Ingested:

Ingestion is likely to be harmful or have adverse effects

Immediate Medical Attention and Special Treatment:**Special Instructions:**

If a physician or medical attention is required, have product container or label at hand.

SECTION 5. FIRE-FIGHTING MEASURES**Extinguishing Media****Suitable Extinguishing Media**

In case of fire: water spray, dry powder, carbon dioxide, foam

Unsuitable Extinguishing Media

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Specific Hazards Arising from the Product

During fire, nitrous gases, fumes/smoke, isocyanates and vapour may be formed.

Special Protective Equipment and Precautions for Fire-fighters

Self-contained breathing apparatus and turn-out gear must be worn in case of fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment, and Emergency Procedures**

Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Methods and Materials for Containment and Clean up

Absorb isocyanates with suitable absorbent material. Shovel into open container. Do not make container pressure tight. Move container to a well-ventilated area (outside). Spill area can be decontaminated with the following recommended decontamination solution: Mixture of 90% water, 8% concentrated ammonia, 2% detergent. Add at a 10 to 1 ratio. Allow to stand for at least 48 hours to allow escape of evolved carbon dioxide.



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SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when sealed gastight. Protect against moisture. If bulging of drum occurs, transfer to well-ventilated area, puncture to relieve pressure, open vent and let stand for 48 hours before resealing.

Conditions for Safe Storage

Keep away from water. Segregate from foods and animal feeds. Segregate from foods and animal feeds. Segregate from acids and bases. Segregate from bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

All protective clothing should be appropriately clean and available to dress into before work. The engineering measures or controls and PPE recommendations are only guidelines and may not apply to every situation.

Data not available.

Appropriate Engineering Controls

Local exhaust ventilation required. Make up air should be supplied to balance air that is removed by local or general exhaust ventilation. Provide sufficient ventilation to keep vapors below permissible exposure limit. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national / local regulations are observed.

General Measures

Do not eat, drink or smoke during work. Avoid all contact with skin or eye. If clothing comes into contact with material, do not allow out of the workplace. Clean hands and any exposed skin thoroughly after work and before breaks.

Eye / Face Protection

Use tightly sealed goggles or safety glasses with side shields which are resistant to Chemicals.

Skin Protection

Wear chemical resistant protection gloves. Wear impervious clothing as necessary to protect against coming in contact with product.

Respiratory Protection

If insufficient ventilation, wear respiratory protection.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark Liquid
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting Point	3 C
Initial Boiling Point / Range	200 C
Flash point	220 C
Evaporation rate	Not available
Flammability(solid; gas)	Not available
Lower flammable/explosive limit	Not available
Upper flammable/explosive limit	Not available
Vapor pressure	0.00015MMHG
Vapor density	Not available
Specific gravity	Not available
Solubility	Reacts with water
Partition coefficient – n- Octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	200 CPS

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Non-reactive
Chemical stability	Stable under recommended handling and storage conditions
Possibility of Hazardous reactions	Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with alcohols. Reacts with acids. Reacts with alkalis. Reacts with amines. Risk of exothermic reaction. Risk of polymerization. Contact with certain rubbers and plastics can cause brittleness of substance/product with subsequent loss in strength.
Conditions to avoid	Avoid moisture. Strong oxidizing agents. Strong acids.
Incompatible materials	Acids, amines, alcohols, water, alkalines, strong bases, substances/products that react with isocyanates.
Hazardous decomposition products	carbon monoxide, carbon dioxide,



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nitrogen oxide, hydrogen cyanide,
aromatic isocyanates, gases/vapours.

SECTION 11. TOXICOLOGY INFORMATION

Likely Routes of Administration

Inhalation, skin contact, eye contact, ingestion.

Acute Toxicity

Oral: Harmful if swallowed.

Dermal: Harmful in contact with skin.

LD50 and LC50 Data

Not available

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/ Irritation

Causes serious eye damage

STOT (Specific Target Organ Toxicity) – Single Exposure Inhalation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Aspiration Hazard

Not classified based on available data.

STOT(Specific Target Organ Toxicity) – Repeated Exposure

Skin, eyes, central nervous system, respiratory system

Respiratory and/or Skin Sensitization

May irritate mucous membranes, eyes, nose, and respiratory passages. May cause asthma attack to persons with pre-existing bronchial hyper reactivity. Exposure to high concentrations may lead to bronchitis, bronchial spasm and pulmonary oedema. Effects are usually reversible. May cause C.N.S. depression with symptoms of nausea, light-headedness, drowsiness, dizziness, loss of coordination

Carcinogenicity

Unknown

Reproductive Toxicity

Not available

Germ Cell Mutagenicity

Not available

Interactive Effects

Not available

SECTION 12. ECOLOGICAL INFORMATION

There is a high probability that the product is not acutely harmful to aquatic organisms.



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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Incinerate or dispose of in a licensed facility. Do not discharge substance/product into sewer system.

SECTION 14. TRANSPORT INFORMATION

UN Number; Proper shipping name; Class(es); Packing group (PG) of the TDG Regulations:
Not classified as a dangerous good under transport regulations.

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IMDG (maritime):
Not classified as a dangerous good under transport regulations.

UN Number; Proper shipping name; Class(es); Packing group (PG) of the IATA (air):
Not classified as a dangerous good under transport regulations.

SECTION 15. REGULATORY INFORMATION

Not required

SECTION 16. OTHER INFORMATION

Date of Preparation August 2020

Date of Last Revision -

Revision Indicators The entire MSDS was change in August 2020.

References

1. CHOHS Fact Sheets September 2016 ©CCOHS 2016
2. Supplier's Material Safety Data Sheet(s)

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