

SAFETY DATA SHEET

1. IDENTIFICATION THE SUBSTANCE / PREPARATION OF THE COMPANY / UNDERTAKING

Product Name: **ESTOFLEX PU770**
Application: PU-Acrylic Hybrid waterproofing membrane coating
Company: Denka Construction Solutions Malaysia Sdn Bhd
Address: No. 18, Jalan Utas 15/7, Seksyen 15, 40200 Shah Alam, Selangor, Malaysia
Telephone: 03 – 55108810 **Fax:** 03 – 55100708

2. HAZARD IDENTIFICATION

NONE

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS Number
Aqueous polymer dispersion	Proprietary
Inert Inorganic Fillers	14807-96-6
Additives, non-hazardous	Proprietary
Chemical characterization	Mixtures

Classification of hazardous components according to GHS

Classification of Hazardous Components according to GHS			
Chemical Name	CAS No.	Composition	Hazard Classification
2-butoxyethanol	203-905-0	<0.03%	Acute Tox. 4: H332,H312,H302 Eye Irrit. 2: H319 Skin Irrit. 2: H315
CMIT/MIT	55965-84-9	<0.005	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Skin Sens. 1A, H317 Eye Dam. 1, H318 Aquatic Acute 1, H400 M = 100 Aquatic Chronic 1, H410 M = 100
Polyoxypropylene allylmethyl ether	62744-60-9	<0.01%	N/A
Magnesiumnitrate	10377-60-3	<0.01%	Ox. Sol. 3, H272
Copper dinitrate	3251-23-8	<0.003%	Ox. Sol. 2, H272 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411
2-amino-2-methyl-1-propanol	124-68-58	<0.2%	N/A
2-methylamino-2-methyl-1-propanol	27646-80-6	<0.02%	N/A
Zinc Oxide	1314-13-2	<1.5%	N/A

4. FIRST AID MEASURES

Eye contact:	Flush eyes with plenty of water. If irritation persists, seek medical attention.
Skin contact:	Clean with a proprietary cleanser and wash with soap and water; do not use solvents. Remove contaminated clothing and clean before re-use.
Inhalation	Remove patient to fresh air, keep warm and at rest. If recovery is not rapid, seek immediate medical attention.
Ingestion	Do not induce vomiting. Rinse mouth with water. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray, foam, dry chemical powder and carbon dioxide.
Fire Fighting Instruction:	Use water spray to cool fire exposed surfaces, protect personnel and extinguish the fire.
Special hazards:	This product will not burn until water has evaporated.

6. ACCIDENTAL RELEASE MEASURES

Observe all relevant local and international regulations.

Personal Precautions, Protective Equipment and Emergency Procedures:

Avoid skin and eye contact.
Avoid breathing vapour, mist or fumes.
Keep container closed.
Do not take internally.
Wear appropriate personal protective equipment like self-contained breathing apparatus or other supplied air respirator.

Environmental Precautions:

Do not empty into drains.
Prevent from spreading or entering drains, ditches or rivers by using sand, earth or other appropriate barriers.

Methods and Material for Containment and Clean Up:

Determine whether to evacuate or isolate the area according to your local emergency plan.
Observe all personal protective equipment recommendations described in this SDS.
If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Clean area as appropriate since spilled materials, even in a small quantity, may present a slip hazard.
Final cleaning may require use of steam, solvents or detergents.
Spontaneous heating may occur for saturated absorbent or cleaning materials.
Dispose all contaminated materials in accordance to the regulations.

7. HANDLING AND STORAGE

Handling: Avoid spills and skin and eye contact.
Storage: Store in sealed containers in a cool place when not in use.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory Protection: Normal working conditions should have adequate ventilation and vapour extraction. If excess vapour, use suitable fresh air respiratory equipment.
Hand Protection: Wear PVC gloves.
Eye Protection: Wear goggles or safety glasses with side protection.
Skin protection: No exposure standards have been established for this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form	Vicious Liquid
Colour	Grey
Odour	Characteristic Ammoniac
Flammability	N/A
Specific Gravity +/- 0.05	1.40 @ 28°C
Solubility in water	Yes
Boiling Point/Range (°C)	> 100

10. STABILITY AND REACTIVITY

Materials to Avoid: N/A.
Conditions to Avoid: This material is thermally stable when stored and used as directed.
Hazardous Decomposition: No hazardous polymerization.

11. TOXICOLOGICAL INFORMATION

Inhalation: High vapour concentration are irritating to the eyes and respiratory tract.
Ingestion: Small amounts of liquid aspirated into the respiratory system during indigestion or vomiting may cause broncho pneumonia or pulmonary edema.
Eye Contact: Irritating.
Skin contact: Frequent or prolonged contact may irritate and cause dermatitis.

12. ECOLOGICAL INFORMATION

Mobility: Viscous material
Persistence / degradability: No information available.
Bioaccumulation: No information available.
Aquatic toxicity: No information available.

13. DISPOSAL CONSIDERATIONS

Liquid surplus or wastes should be appropriately labelled. Disposal must be in accordance with current national and local regulations. Appropriate disposal is by incineration. Solidified wastes may be land filled, but authorization from appropriate sources should be sought. Empty drums should be sent for reconditioning or scrap by a recognized drum reconditioner. Empty containers may pose a fire and explosion hazard.

14. TRANSPORT INFORMATION

ADG/ADR/RID: Not classified ad Dangerous Goods by the criteria of the ADG Code.
IMDG: Not classified ad Dangerous Goods by the criteria of the IMDG Code for transport by sea.
IATA: Not classified ad Dangerous Goods by the criteria of the IATA Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

N/A

16. OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used than for the stated application or applications without seeking advice from Denka Construction Solutions Malaysia Sdn Bhd.

If this product has been purchased to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described to this sheet and of any precautions which should be taken. This sheet does not constitute or substitute for the user's own assessment of workplace risk, as required by other health and safety legislation.

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Denka Construction Solutions Malaysia Sdn Bhd

(591858-U)
No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202
www.denka-cs.com

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