



## MATERIAL SAFETY DATA SHEET

Product Name: **ISO Polyurea**

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### 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

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Product Name: **ISO Polyurea UHC,  
ISO Polyurea HC & ISO Polyurea SEC**

Product Code: **Cast and Spray [Special Equipment] of High Tech Concrete Floor Coating,  
Polyurea 100% Solid & VOC: 0%**

Company: **LAMACO SYSTEM SDN. BHD.**

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### 2: COMPOSITION/INFORMATION ON INGREDIENTS

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Composite: **Solvent Free Liquid, Prepolymer/Isocyanate group's This product contains ingredients classified as hazardous. However, they are NOT present in sufficient quantities to warrant classifying the product as hazardous.**

Hazardous Ingredient(s): **Prepolymer/Isocyanate Polyurea**

Risk Phrases: **\* see Section 11**

Other Information %:

|   |                  |
|---|------------------|
| <b>MDI Diphenylmethane Diisocyanate</b> | <b>25-45%</b>    |
| <b>Polyurethane</b>                     | <b>55-75%</b>    |
| <b>Toluene Diisocyanate</b>             | <b>&lt;0.06%</b> |

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### 3: HAZARDS IDENTIFICATION

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Hazards: **Long term skin contact may cause health problems**



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### **4: FIRST AID MEASURES**

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Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention if irritation persists.

Skin: Wash thoroughly with soap and water or suitable skin cleanser as soon as possible.

Inhalation: Remove from exposure – unlikely to occur.

Ingestion: Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention.

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### **5: FIRE FIGHTING MEASURES**

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Suitable Extinguishing Media: **None, Not Flammable.**

Special Exposure Hazards: **Yes, Combustible Liquid.**

Special Protective Equipment: **None.**

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### **6: ACCIDENTAL RELEASE MEASURES**

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Personal Precautions: **Wear suitable protective clothing, gloves and eye/face protection.**

Environment Precautions: **Prevent entry into drain, sewers and water courses.**

Decontamination Procedures: **Soak up with inert absorbent or contain and remove by best. Available means. Gather into containers. Dispose of as waste.**

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### **7. HANDLING & STORAGE**

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Handling: **Avoid skin and eye contact.**

Storage: **Store in a cool, dry area. Protect from frost.**

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### **8: EXPOSURE CONTROL/PERSONAL PROTECTION**

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Occupational Exposure Limits: **Yes, stored under proper conditions or safety area.**

Engineering Control Measures: **Ventilation requirement noted.**



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### **9: Physical And Chemical Properties**

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|                               |                                  |
|-------------------------------|----------------------------------|
| Physical State:               | <b>Solvent Free Liquid.</b>      |
| Color:                        | <b>Brown Transparent Liquid.</b> |
| Odor:                         | <b>Typical.</b>                  |
| pH (concentrate):             | <b>Nil</b>                       |
| Boiling Point/Range (°C):     | <b>Not applicable</b>            |
| Flash point:                  | <b>&gt; 200°C</b>                |
| Autoflammability (°C)         | <b>Not applicable</b>            |
| Explosive Properties (%):     | <b>Not applicable</b>            |
| Oxidising Properties:         | <b>Not applicable</b>            |
| Vapor Pressure (kPa at 20°C): | <b>Not applicable</b>            |
| Relative Density (at 20°C):   | <b>1.02g/cu. cm</b>              |
| Water Solubility:             | <b>Xylene</b>                    |

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### **10: STABILITY AND REACTIVITY**

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|                                   |   |
|-----------------------------------|---|
| Stability:                        | <b>Stable</b>   |
| Conditions to avoid:              | <b>Temperature (°C) below 0. Temperature (°C) above &gt;200</b> |
| Material to avoid:                | <b>Strong acids.</b>  |
| Hazardous Decomposition Products: | <b>Cannot reaction with Water or Any Moistures/Vapours</b>      |

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### **11: TOXICOLOGICAL INFORMATION**

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The following toxicological assessment is based on a knowledge of the toxicity of the product's components.

#### **Health Effects**

|                |  |
|----------------|--|
| On Eyes:       | <b>Irritation.</b>   |
| On Skin:       | <b>Unlikely to irritate on brief or occasional exposure.</b>                                   |
| By Inhalation: | <b>Low volatility makes inhalation unlikely at ambient temperature.</b>                        |
| By Ingestion:  | <b>Low order of acute toxicity. May cause irritation of mouth, throat and digestive tract.</b> |
| Chronic:       | <b>Repeated and prolonged skin contact may lead to skin disorders.</b>                         |



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### 12: ECOLOGICAL INFORMATION

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Environmental Assessment: **When used and disposed of as intended, no adverse environmental effects are foreseen.**

Mobility: **Mobile liquid. Xylene Solvent.**

Persistence and Degradability: **Not readily biodegradable.**

Ecotoxicity: **Expected to be ecotoxic to fish/daphnia/algae.**

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### 13: DISPOSAL CONSIDERATIONS

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Dispose must be in accordance with local and national legislation.

Unused Product: **Dispose of through an authorized waste contractor to a licensed site. Do not empty into drains, sewers or water courses.**

Used/Contaminated Product: **As for unused product.**

Packaging: **May be steam cleaned and recycled.**

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### 14: REGULATORY INFORMATION

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**Hazard Label Data:-**

***This product is NOT classified as dangerous for supply in the MALAYSIA & ASIA & EUROPEAN (EEC) & US.***

Safety Phrases: **In case of contact with eyes, rinse immediately with plenty of water and Seek medical advice. Avoid contact with skin and eyes.**

EC Directives: **Dangerous Substances Directive, 67/548/EEC and adaptations.  
Dangerous Preparations Directive, 88/379/EEC.  
Safety Data Sheet Directive, 91/155/EEC.**

Statutory Instruments: **Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092).  
Control of Substances Hazardous to Health Regs. 1994 (SI 3246)  
Environmental Protection (Duty of Care) Regs. 1991 (SI 2839)**



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Codes of Practice: **Waste Management. The Duty of Care.**  
**The above publications are available from HMSO**

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**Health & Safety** Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **LAMACO Malaysia** on request and sent with each delivery.



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