



# Material SAFETY DATA SHEET

## Griptop LDS - Hardener

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Griptop LDS - Hardener**

Description: Hardener component of three part self-levelling polyurethane floor topping

Manufacturer: **Ayla Lebanon**  
Port, Jamarek Street (Face Port Pharmacy), Rbeiz Bldg  
Beirut, Lebanon  
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Date Prepared: 17.02.2013

MSDS Number: DCP/05/05/27-H

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Polyisocyanate pre-polymer

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Diphenylmethane-4,4'-di-isocyanate	Xn	R20, 36/37/38, 42/43	101-68-8	60 – 90

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Harmful.  
Harmful by inhalation.  
Irritating to eyes, respiratory system and skin.  
May cause sensitisation by inhalation and skin contact.

Classification: Xn. R20, 36/37/38, 42/43

### 4: FIRST AID MEASURES

Eyes: Bathe the eye with running water for 15 minutes. Get medical attention.

Skin: Take off contaminated clothing and shoes immediately and wash skin with soap and water. Get medical attention if irritation develops.

Inhalation: After inhalation Take affected persons into the open air and position comfortably. Get medical attention.

Ingestion: Do not induce vomiting. Wash mouth out with water. Drink plenty of water. Get medical attention.



## 5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	Not applicable.
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. For safety reasons do not use Water with a full water jet.
Personal Protective Equipment:	Self-contained breathing apparatus. Standard aluminized suit.
Special Exposure Hazards:	Toxic fumes. Carbon monoxide (CO), nitrogen oxides (NO <sub>x</sub> ), sulfur dioxide, hydrogen sulfide, formaldehyde, mercaptans.

## 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear suitable protective clothing, gloves and eye/face protection.
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with inert absorbent like sand. Gather into labeled containers. Dispose off as applicable regulations.

## 7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Avoid skin and eye contact. Do not eat, drink or smoke whilst using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
Storage:	Keep container tightly closed in a cool dry area away from sources of heat and out of direct sunlight to avoid pressure build up. Store in conformity with local fire regulations. Store away from sources of ignition. Keep away from food containers. Store at 15 - 25°C.

## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Tightly sealed safety glasses/goggles.
Skin Protection:	Impervious gloves (e.g. PVC). Suitable protective clothing.
Respiratory Protection:	Breathing filters apparatus.
Hygiene Measures:	Change contaminated clothing and clean before re-use.
Engineering Controls:	Use only in well ventilated area. Local exhaust ventilation is recommended.
Exposure Guidelines:	None assigned.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Yellowish to brown
Odour:	Characteristic
Boiling Point (°C):	Not applicable
Flash Point (closed cup) (°C):	Not applicable
Autoflammability (°C):	Not applicable
Explosive Properties (%):	Not applicable
Relative Density (@25°C):	1.10 – 1.30
Water Solubility:	Immiscible with water

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Any source of ignition. Temperature above 35°C.
Chemical Incompatibility:	Amines. Alcohols, glycols. Reacts with water forming carbon dioxide. Risk of bursting owing to increased pressure in closed containers
Hazardous Decomposition Products:	During fire, toxic gases (CO, CO <sub>2</sub> , NO <sub>x</sub> ) are formed.

## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Expected oral LD<sub>50</sub>, rat > 2000 mg/kg.  
Classified as skin sensitizer.

### Health Effects

On Eyes:	Strong caustic effect.
On Skin:	Corrosive - causes burns. May cause sensitization.
By Inhalation:	Harmful by inhalation. May cause respiratory irritation.
By Ingestion:	Harmful if swallowed. May cause irritation of mouth, throat and digestive tract. Ingestion of significant amounts may result in severe systemic effects.
Chronic:	Repeated and prolonged skin contact will result in severe irritation leading to burns.

## 12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid.
Degradability:	Not readily biodegradable.
Bioaccumulation:	Not Known.
Acute Fish Toxicity:	Expected to be ecotoxic to fish/daphnia/algae.

## 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Classified as a special waste. May be reacted with base component to give an inert polymeric material.
Used/ Contaminated Product:	Classified as a special waste. Dispose off through an authorized waste contractor to a licensed site.
Packaging:	Must be disposed off through an authorized waste contractor.

## 14: TRANSPORT INFORMATION

This product is **not** classified as dangerous for transport.

## 15: REGULATORY INFORMATION

### Hazard Label Data:

Xn



Harmful

Risk Phrases:	R20	Harmful by inhalation.
	R36/37/38	Irritating to eyes, respiratory system and skin.
	R42/43	May cause sensitization by inhalation and skin contact.
Safety Phrases:	S23	Do not breathe fumes/aerosol.
	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
	S45	In case of accident if you feel unwell, seek medical advice immediately (show label whenever possible).



## 16: OTHER INFORMATION

Issue Date:

17/02/2013

Revised Date:

Disclaimer:

The information contained herein is derived from the best available sources and is believed to be accurate. However, no guarantee is expressed or implied regarding the accuracy of the data given in the use of this product.