



Material SAFETY DATA SHEET

Quickmast 120 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Quickmast 120 - Hardener**

Description: Hardener component of two part polyurethane injection repair system

Manufacturer: **Ayla Lebanon**
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Beirut, Lebanon
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Date Prepared: 18.06.2008

MSDS Number: DCP/04/03/20-H

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Polyurethane curing agent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Isocyanate	Xn	R20, 36/37/38, 42/43		> 70

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

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

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

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for 15 minutes. Obtain medical attention if symptoms persist.

Skin: Wash immediately with soap and plenty water. Remove contaminated clothing and shoe. Seek medical attention if irritation persists.

Inhalation: Remove from exposure; obtain medical attention if respiratory irritation develops or if breathing becomes difficult.

Ingestion: Rinse mouth thoroughly. Don't swallow water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.



5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	230°C.
Extinguishing Media:	Carbon dioxide, powder, foam or large quantities of water.
Personal Protective Equipment:	Self-contained breathing apparatus.
Special Exposure Hazards:	Nitrogen oxides. Carbon oxides. Hydrogen cyanide. Irritating fumes.

Note: Contamination of Isocyanate with water could lead to dangerous pressure inside closed containers by generation of carbon dioxide. Containers may burst if overheated.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Not required
Environmental Precautions:	Prevent entry into drains, sewers and water courses.
Decontamination Procedures:	Soak up with wet inert absorbent such as sand and leave for 30 minutes. Gather into labeled containers. Dispose off as applicable regulations and through an authorized contractor.

7: HANDLING AND STORAGE

Handling:	Maintain good standards of personal hygiene. Avoid skin and eye contact. Ensure adequate ventilation.
Storage:	Keep container tightly closed in a cool dry area away from food stuff.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Safety glasses/goggles- tightly sealed.	
Skin Protection:	Impervious gloves (e.g. PVC). Suitable protective clothing and boots.	
Respiratory Protection:	For brief exposure use respiratory filter device. For long exposure use self-contained respiratory protective device.	
Hygiene Measures:	Change contaminated clothing and clean before re-use.	
Engineering Controls:	Use only in well ventilated area. Assure that exposure guidelines are not exceeded.	
Exposure Guidelines:	WEL –short term	WEL-Long term
Isocyanate	0.02 mg/m ³	0.07 mg/m ³



9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Color:	Red-brown
Odour:	Characteristic
Boiling Point (°C) :	> 300
Flash Point (closed cup) (°C):	230
Autoflammability (°C):	Not Self igniting
Explosive Properties (%):	0.4% (volume)
Relative Density (@25°C):	0.95 – 1.0
Water Solubility:	Insoluble

10: STABILITY AND REACTIVITY

Stability:	Stable.
Chemical Incompatibility:	Bases, water, amines and alcohol.
Hazardous Decomposition Products:	Thermal decomposition yield Nitrogen oxides. Carbon oxides. Hydrogen cyanide. Irritating fumes.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Acute Oral effect LD50 \cong 2200 mg/kg.

Health Effects

On Eyes:	Irritating.
On Skin:	Irritating to skin and mucous membranes.
By Inhalation:	Sensitization.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed as intended, no adverse environmental effects are foreseen. Slightly hazardous for water.
Mobility:	Viscous liquid. Insoluble in water.
Degradability:	No information.
Bioaccumulation:	No information.
Acute Fish Toxicity:	No information.

13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product: Dispose off through an authorized waste contractor to a licensed site.

Used/ Contaminated Product: As for unused product.

Packaging: Must be disposed off through an authorized waste contractor.

14: TRANSPORT INFORMATION

No regulations.

15: REGULATORY INFORMATION

Hazard Label Data:

Xn



Harmful

Named Ingredients: Isocyanate

Risk Phrases:

R20 Harmful by inhalation.
R36/37/38 Irritating to eyes, skin and respiratory system.
R42/43 May cause sensitization by inhalation and skin contact.

Safety Phrases:

S23 Do not breathe gas/fumes/vapor/spray.
S36/37 Wear suitable protective clothing and gloves.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16: OTHER INFORMATION

Issue Date: 18/06/2008 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.