



Material SAFETY DATA SHEET

Quickmast 341 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Quickmast 341 - Hardener**

Description: Solvent free high strength epoxy paste

Manufacturer: **Ayla Lebanon**
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Beirut, Lebanon
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2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy resin hardening agent epoxy resin, nonreactive fillers.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Cas No.	%
Polyoxypropylendiamin	Xn, C	R34	9046-10-0	15 – 30
Nonylphenol	Xn, C, N	R22, 34, 62, 50/53, 63	25154-52-3	15 – 30
2-piperazin-1-ylethylamine	Xn, C	R21/22, 34, 43, 52/53	2588-13-2	6 – 15
Polyamide resin	Xi	R36/38, 43, 52/53		< 15
Free amines, Triethylene tetramine	Xn,C	R21, 34, 43, 52/53	112-24-3	< 3
2,4,6-tris (dimethylaminomethyl) phenol	Xn, Xi	R22, 36/38	90-72-2	< 3

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Harmful by inhalation, in contact with skin and if swallowed.
Causes burns.
Irritating to eyes and skin.
May cause sensitization by skin contact.
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Possible risk of impaired fertility.
Possible risk of harm to the unborn child.

Classification: Xn, N, C. R20/21/22, 34, 36/38, 43, 50/53, 62, 63.

4: FIRST AID MEASURES

Eyes:	Irrigate immediately with copious quantities of water for 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Obtain medical attention if irritation persists.
Skin:	Wash thoroughly with soap and water or suitable skin cleanser as soon as possible. Remove contaminated clothing. Obtain medical advice if skin disorders develop.
Inhalation:	Move to fresh air. Obtain medical attention if needed.
Ingestion:	Immediately give plenty of water (if possible charcoal slurry). If a person vomits when lying on his back, place him in a recovery position. DO NOT induce vomiting. Obtain medical attention.

5: FIRE FIGHTING MEASURES

Flash Point:	> 100°C.
Extinguishing Media:	CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
Special Exposure Hazards:	Formation of toxic gases is possible during heating or in case of fire.
Personal Protective Equipment:	Wear protective clothing and use self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Put on adequate protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Soak up with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Disposal according to local regulations.

7: HANDLING AND STORAGE

Handling:	Do not breathe vapour. Avoid skin and eye contact.
Storage:	Keep in a dry cool ventilated place. Direct sunshine should be avoided. Keep away from ignition sources – No smoking. Keep containers tightly closed. Keep away from food, drinks and animal food.



8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ingestion:	Prevent eating, drinking or smoking in the area of product use.
Eye Contact:	Safety glasses or chemical goggles.
Skin Contact:	Impervious gloves (e.g. PVC).
Inhalation:	When mist occurs during spraying operations, wear suitable respiratory protective equipment.
Respiratory Protection:	In case of insufficient ventilation, wear suitable equipment.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Slightly viscous liquid
Colour:	Black
Odour:	Amine like
Boiling Point (°C):	Not applicable
Flash Point (closed cup) (°C):	> 100
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	1.10 – 1.20
Water Solubility:	Difficult to mix

10: STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Excessive heating. Direct sunshine should be avoided. Electric discharge.
Chemical Incompatibility:	Strong acids, strong base, strong oxidizer and amines.
Hazardous Decomposition Products:	Formation of toxic gases is possible during heating or in case of fire.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 100 mg/kg.

Health Effects

On Eyes:	Strong caustic effect.
On Skin:	Caustic effect on skin and mucous membranes.
By Inhalation:	Irritant.
By Ingestion:	Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental affects are foreseen.
Mobility:	Not applicable.
Degradability:	Not applicable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Very toxic for aquatic organisms.

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:	May be steam cleaned and recycled.

14: TRANSPORT INFORMATION



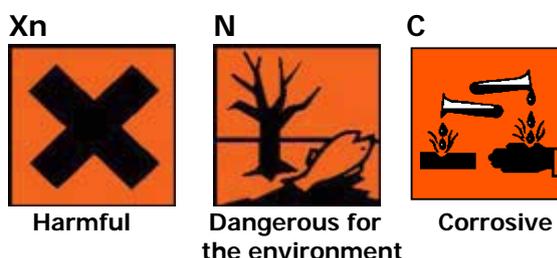
UN Number: 2735

Transport Name: Amines, liquids, corrosive, n.o.s. (Polyoxypropylendiamin).

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMO	8	II	Yes
Air Transport	IATA/ICAO	8	II	
At land	RID/ADR	8	II	

15: REGULATORY INFORMATION

Hazard Label Data:



Named Ingredients:

Polyoxypropylendiamin
Nonylphenol
-2piperazin-1-ylethylamine

UN Number:

2735

Risk Phrases:

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.

Safety Phrases:

S24/25	Avoid contact with skin and eyes.
S28	After contact with skin, wash immediately with plenty of water.
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 or if you feel unwell, seek medical advice immediately (show the label where possible).
S57	Use appropriate container to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.



16: OTHER INFORMATION

Issue Date: 14/5/2008 Revised Date: 15.01.2013

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.