



Material SAFETY DATA SHEET

Flo-Grout EP330 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Flo-Grout EP330 - Hardener**

Description: Hardener component of epoxy grout system

Manufacturer: **Ayla Lebanon**
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Beirut, Lebanon
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MSDS Number: DCP/03/03/13-H

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy curing agent, epoxy diluent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Epoxy curing agent	C	R20/21/22, 34, 43, 52/53	2855-13-2	90

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.
May cause sensitization by skin contact.
Harmful to aquatic organism, may cause long-term effects in the aquatic environment.

Classification: C, N. R20/21/22, 34, 43, 52/53



4: FIRST AID MEASURES

Eyes:	Irrigate immediately with copious quantities of water for 15 minutes. Obtain medical attention immediately.
Skin:	Wash immediately with soap and water or suitable skin cleanser. Remove contaminated clothes and shoes. Obtain medical advice if irritation persists.
Inhalation:	Remove from exposure, obtain medical attention if respiratory irritation develops or if breathing becomes difficult.
Ingestion:	Drink plenty of water. Do not induce vomiting. Obtain medical attention. Beware of aspiration if vomiting occurs.

5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	> 100°C.
Extinguishing Media:	Carbon dioxide, powder, foam or water.
Personal Protective Equipment:	Self-contained breathing apparatus. Standard aluminized suit.
Special Exposure Hazards:	Toxic fumes. Nitrogen compounds.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	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.
Storage:	Keep container tightly closed in a cool dry area. Keep away from food containers.

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:	Clear yellowish brownish
Odour:	Sharp
pH (concentrate):	11 @ 1:1 mixture
Boiling Point (°C):	> 200
Flash Point (closed cup) (°C):	> 100
Autoflammability (°C):	Autoignition temperature > 300
Explosive Properties (%):	Lower Explosive Limit (LEL): 1.3% (by volume)
Relative Density (@25°C):	1.07
Water Solubility:	Insoluble

10: STABILITY AND REACTIVITY

Stability:	Stable if used as directed.
Conditions to Avoid:	Temperature below 0°C.
Chemical Incompatibility:	Strong acids. Strong alkalis. Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition yield oxides of carbon, nitrogen compounds.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 1030 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. Insoluble in water.
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



UN Number:	1760
Transport Name:	Corrosive liquids, n.o.s.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMO	8	III	No
Air Transport	IATA/ICAO	8	III	
At land	RID/ADR	8	III	

15: REGULATORY INFORMATION

Hazard Label Data:

C



Corrosive

Named Ingredients:

Isophorone diamine
Benzyl alcohol

UN Number:

1760

Risk Phrases:

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse in the aquatic environment.

Safety Phrases:

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.
S37/39	Wear suitable gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16: OTHER INFORMATION

Issue Date:

26/05/2008

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.