



Material SAFETY DATA SHEET

Marmofix - Base

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Marmofix - Base**

Description: Base component of two part quick setting stone putty

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

Composition: Styrene monomer, fillers, additives.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Styrene, monomer	Xn	R10, 20, 36/38	100-42-5	20 - 60

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Flammable.
Harmful by inhalation.
Irritating to eyes and skin.

Classification: Xn. R10, 20, 36/38.



4: FIRST AID MEASURES

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin:	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
Inhalation:	Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion:	Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupful of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. If conscious drink water, then induce vomiting. If unconscious, immediately take victim to a physician and do NOT attempt to induce vomiting.

5: FIRE FIGHTING MEASURES

Flash Point:	32°C.
Special Exposure Hazards:	Vapors may form an explosive mixture with air. Flammable Liquid. Can release vapors that form explosive mixtures at temperatures above the flashpoint. Containers may explode in the heat of a fire.
Extinguishing Media:	This material is lighter than water and insoluble in water. The fire could easily be spread by the use of water in an area where the water cannot be contained. Use water fog, dry chemical, carbon dioxide, or regular foam.
Personal Protective Equipment:	Wear self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Use proper personal protective equipment.
Environmental Precautions:	Keep away from drains, surface-water, ground-water and soil.
Decontamination Procedures:	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Use a spark-proof tool. Provide ventilation.



7: HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with skin and eyes. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Take precautionary measures against static discharges. Avoid ingestion and inhalation. Wash clothing before reuse. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Storage: Keep away from sources of ignition. Store in a cool place in the original container and protect from sunlight. Keep cool. Keep containers tightly closed.

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: 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.

Exposure Guidelines:

Component	CAS number	TWA	STEL
Styrene	100-42-5	215 mg/m ³	425 mg/m ³

9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Paste

Colour: Various

Odour: Pungent odour

Flash Point (°C): 32

Boiling Point (°C): Not applicable

Explosive Properties (%): 1.1

Freezing Point (°C): Not applicable

Relative Density (@25°C): 1.65 - 1.75

Water Solubility: Insoluble



10: STABILITY AND REACTIVITY

Stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to Avoid:	Ignition sources, excess heat.
Chemical Incompatibility:	Vapor is explosive when exposed to heat or flame and reacts with oxygen at temperatures above 104 F, uninhibited material may form explosive peroxides. Uninhibited material may polymerize which becomes self-sustaining at temperatures above 65 C. Exposure to butyllithium, dibenzoyl peroxide, azoisobutyronitrile or di-tert-butylperoxide may cause violent polymerization. Violent reaction with chlorosulfonic acid, oleum, sulfuric acid and oxidizers. Oxygen + heat are explosive.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.
Expected oral LD50, rat > 2000 mg/kg

Health Effects

On Eyes:	Irritant.
On Skin:	Irritant.
By Inhalation:	Irritant.
By Ingestion:	Irritant.
Chronic:	Not applicable.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed off as intended, no adverse environmental effects are foreseen.
Mobility:	Not applicable.
Degradability:	Not applicable.
Bioaccumulation:	Not applicable.
Acute Fish Toxicity:	Not applicable.

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/SI Number: 2055
 Transport Name: Styrene monomer, inhibited.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMO	3	III	No
Air Transport	IATA/ICAO	3	III	
At land	RID/ADR	3	III	

15: REGULATORY INFORMATION

Hazard Label Data:

Xn



Harmful

Contains: Styrene monomer, fillers, additives.

Risk Phrases:

R10 Flammable.
 R20 Harmful by inhalation.
 R36/38 Irritating to eyes and skin.

Safety Phrases:

S23 Do not inhale gas/fumes/vapour/spray.

16: OTHER INFORMATION

Issue Date: 02/03/2014 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.