



Material SAFETY DATA SHEET

Quickmast EP500F - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Quickmast EP500F - Hardener**

Description: Hardener component of three component high performance solvent free epoxy ceramic tile and stone adhesive and grout specially designed to grout narrow joints between tiles.

Manufacturer: **Don Construction Products/Jordan**

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MSDS Number: DCP/10/01/35-H

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy resin hardening agent, inert fillers and additives.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Polyaminoamide adduct	Xi	R41	-	15 – 30
Phenol, methylstyrenated	Xi	R38, 43	68512-30-1	15 – 20
Polyoxypropylendiamin	C, Xn, Xi	R22, 34, 41, 52/53, 65	9046-10-0	5 – 15
Nonylphenol	C, Xn, N	R22, 34, 62, 63, 50/53	25154-52-3	1 – 10
2-piperazin-1-ylethylamine	C, Xn	R21/22, 34, 43, 52/53	140-31-8	1 – 10
Triethylene tetramine	C, Xn, Xi	R21, 34, 43, 52/53	112-24-3	1 – 10
4,4'-methylenedianiline	T, Xn, N	R39, 43, 45, 48, 68, 41/53	101-77-9	1 – 5
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	Xi, N	R36/38, 43, 51/53	25068-38-6	1 - 5
Xylene	Xn, Xi	R10, 20/21, 38	1330-20-7	1 - 5

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information:	Harmful in contact with skin and if swallowed. Causes burns. Irritating to eyes and skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Classification:	C, Xn, N. R21/22, 34, 36/38, 41, 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 disorder 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. Administer oxygen or artificial respiration if needed. Do not induce vomiting. Obtain medical advice.
General:	Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

5: FIRE FIGHTING MEASURES

Flash Point:	> 150°C.
Special Exposure Hazards:	In case of fire toxic fumes will be formed (amines), carbon oxides and nitrogen oxides.
Extinguishing Media:	CO ₂ , 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:	Wear protective clothing and use self-contained breathing apparatus.

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

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:	Viscous liquid
Colour:	Brown
Odour:	Mild amines
Flash Point (closed cup) (°C):	> 200
Boiling Point (°C):	Not applicable
Explosive Properties (%):	Not applicable
Freezing Point (°C):	Not applicable
Relative Density (@25°C):	0.95 – 1.05
Water Solubility:	Insoluble

10: STABILITY AND REACTIVITY

Stability:	Stable if used as directed.
Conditions to Avoid:	Temperature above 35°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 > 1000mg/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:	Dispose off through an authorized waste contractor to a licensed site.
Used/ Contaminated Product:	As for unused product.
Packaging:	As for unused product.

14: TRANSPORT INFORMATION



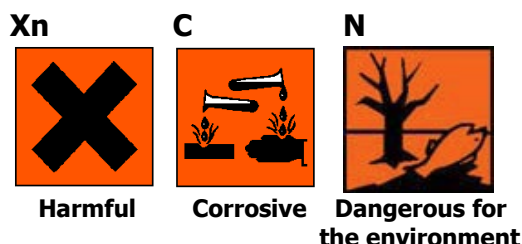
UN Number: 2735

Transport Name: Amines, liquid, corrosive, n.o.s. or Polyamines, liquid, corrosive, n.o.s.

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:



Risk Phrases:

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects 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.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water.
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).

16: OTHER INFORMATION

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.