



# Material SAFETY DATA SHEET

## Quickmast EP100 – Hardener

### 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Quickmast EP100 - Hardener**

Description: Hardener component of two part epoxy adhesive

Manufacturer: **Don Construction Products**  
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Tel. + 974 4 411 4004 Fax: + 974 4 411 4014  
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Date Prepared: 01.09.2008

MSDS Number: DCP/09/02/11-H

### 2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Aliphatic polyamine, Silicon Dioxide

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Trimethylhexan-1,6-diamin	C	R22, 34, 43, 52/53	25620-58-0	70 - 100
Silica			7631-86-9	10 - 20

Refer to Section 8 for Occupational Exposure Limits.

### 3: HAZARDS IDENTIFICATION

Hazard Information: Corrosive.  
Harmful if swallowed.  
Causes burns.  
May cause sensitization by skin contact.  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification: C. R22, 34, 43, 52/53.



#### 4: FIRST AID MEASURES

Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Obtain medical attention.
Skin:	Immediately remove contaminated clothing and shoes. Wash off with soap and water. If skin irritation continues, consult a doctor.
Inhalation:	Take affected persons into the open air and position comfortably. Seek medical treatment in case of complaints.
Ingestion:	Immediately give plenty of water (if possible charcoal slurry). If a person vomits when lying on his back, place him in the recovery position. Oxygen or artificial respiration if needed. Do not induce vomiting. Instantly call for doctor.

#### 5: FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Special Exposure Hazards:	Burning produces obnoxious and toxic fumes. Carbon oxides and nitrogen oxides.
Extinguishing Media:	CO <sub>2</sub> , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Do not use Water with a full water jet.
Personal Protective Equipment:	Wear self-contained breathing apparatus and protective suit.

#### 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Evacuate non-emergency personnel. Isolate area and prevent access. Use self-contained breathing apparatus and chemically protective clothing. Wear suitable protective clothing, gloves and eye/face protection. Ensure adequate ventilation. Remove all sources of ignition. Control the source of leak.
Environmental Precautions:	Prevent product from entering drains. Do not contaminate surface water. Avoid subsoil penetration. Inform respective authorities in case product reaches water or sewage system.
Decontamination Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Clean the accident area carefully.

#### 7: HANDLING AND STORAGE

Handling:	Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Ensure adequate ventilation. Keep away from sources of ignition-No smoking. Handle and open container with care. Keep containers tightly sealed.
Storage:	Keep containers securely closed and dry, store at 15 - 20°C. Store only in the original container. Store away from foodstuffs.



## 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Contact:	Tightly fitted safety goggles. Face-shield.
Skin Contact:	Protective suit. Safety shoes, and rubber or plastic gloves (Nitrile rubber, NBR, PVC gloves, Recommended thickness of the material: $\geq 0.5$ mm)
Respiratory Protection:	Wear appropriate respirator when ventilation is inadequate.
Exposure Guidelines:	Construct a dike to prevent spreading. Do not breathe dust/vapors. Keep away from sources of ignition. Avoid contact with eyes, skin and clothing.

## 9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Clear liquid
Colour:	Clear
Odour:	Characteristic
pH (concentrate):	Not applicable
Boiling Point ( $^{\circ}\text{C}$ ):	Not applicable
Flash Point (closed cup) ( $^{\circ}\text{C}$ ):	Not applicable
Autoflammability ( $^{\circ}\text{C}$ ):	Not applicable
Explosive Properties (%):	Not known
Relative Density (@25 $^{\circ}\text{C}$ ):	0.90 - 0.93
Viscosity (@25 $^{\circ}\text{C}$ ):	50 - 55 poise
Water Solubility:	Not applicable

## 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Avoid static electricity discharge.
Chemical Incompatibility:	Strong acids, strong bases, oxidizing agents.
Hazardous Decomposition Products:	Burning produces obnoxious and toxic fumes. Carbon oxides and nitrogen oxides.



## 11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components.  
Expected oral LD50, rat > 910 mg/kg.

### Health Effects

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

## 12: ECOLOGICAL INFORMATION

Mobility:	No data available.
Degradability:	Not readily biodegradable.
Bioaccumulation:	No data available.
Acute fish toxicity:	
Algae toxicity:	29.5 (72h) mg/l
Bacteria toxicity:	72 (16h) mg/l
Daphnia toxicity:	31.5 (24h) mg/l
Fish toxicity:	174 (48h) mg/l

## 13: DISPOSAL CONSIDERATION

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of liquid components at a suitable incineration plant.
Used/ Contaminated Product:	As for unused product.
Packaging:	Empty Containers retain product residue; observe all precautions for product. If container is to be disposed, ensure all product residues are removed prior to disposal.

## 14: TRANSPORT INFORMATION



UN Number: 2327

Transport Name: Corrosive substances. Trimethylhexamethylenediamines.

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

## 15: REGULATORY INFORMATION

Hazard Label Data:

C



Corrosive

UN Number:

2327

Risk Phrases:

- |        |   |
|--------|---|
| R22    | Harmful if swallowed.   |
| R34    | Causes burns.   |
| R43    | May cause sensitisation by skin contact.  |
| R52/53 | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

Safety Phrases:

- |           |   |
|-----------|---|
| S20       | When using do not eat or drink.   |
| 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 soap and water.                      |
| S36/37/39 | Wear suitable protective clothing, gloves and eye/face protection.                            |
| S61       | Avoid release to the environment. Refer to special instructions/safety data sheets.           |

## 16: OTHER INFORMATION

Issue Date:

01/09/2008

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.