Material SAFETY DATA SHEET
Strongcoat 450 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	**Strongcoat 450 - Hardener**
Description:	Hardener component of two part Nontoxic solvent free epoxy protective coating for concrete and metal
Manufacturer:	**Ayla for Building Materials Industry & Trade** Al-Karadeh, Arsat Al-Hindia, Baghdad Tel.: +964 790 1488 730 www.dcp-int.com
Date Prepared:	20.07.2022 Date Revised:
MSDS Number:	DCP/06/03/57-H

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Epoxy resin hardening agent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Polyoxypropylendiamin	C, Xn	R22, 34	9046-10-0	10 - 65
nonylphenol	C, Xn, N	R22, 34, 62, 50/53, 63	25154-52-3	10 - 55
2-piperazin-1-ylethylamine	C, Xn	R21/22, 34, 43, 52/53	140-31-8	10 - 35

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information:

Corrosive.
Harmful if swallowed.
Causes burns.
Irritating to eyes and skin.
May cause sensitisation by skin contact.
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: C, Xn, N. R22, 34, 36/38, 43, 51/53, 62, 63.

4: FIRST AID MEASURES

Eyes:	Irrigate opened eye 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.
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 (Closed Cup):	> 100°C.
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:	Self-contained breathing apparatus. Standard aluminized suit.
Special Exposure Hazards:	Toxic fumes. Carbon monoxide (CO), nitrogen oxides (NOx).

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

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:	Yellowish
Odour:	Amine-like
Boiling Point (°C):	> 200
Flash Point (closed cup) (°C):	> 100
Autoflammability (°C):	Product is not selfigniting
Explosive Properties (%):	Product is not explosive
Relative Density (@25°C):	0.98 – 1.00
Water Solubility:	Not miscible or difficult to mix

10: STABILITY AND REACTIVITY

Stability:	Contains volatile solvent. Stable if used as directed.
Conditions to Avoid:	Any source of ignition. 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 > 1000 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 substances.

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

15: REGULATORY INFORMATION

Hazard Label Data:

C

Corrosive

N

Dangerous for the environment

Named Ingredients: 2-piperazin-1-ylethylamine
Nonylphenol

UN Number: 1760

Risk Phrases:

R22	Harmful if swallowed.
R34	Causes burns.
R36/38	Irritating to eyes and skin.
R43	May cause sensitisation by skin contact.
R51/53	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:

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).
S60	This material and its container must be disposed of as hazardous waste.

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.