



Material SAFETY DATA SHEET

Strongcoat PE4 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Strongcoat PE4 - Hardener**

Description: Hardener component of solvent free coal tar epoxy resin coating system

Manufacturer: **Don Construction Chemicals India LTD**
Tel. +914426185340/41/42
www.dcp-int.com

Date Prepared: 11.11.2013

MSDS Number: DCP-IND/06/03-H

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Coal tar, hardening agent and fillers.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Soft pitch	Xn	R45	65996-93-2	35 - 55
Triethylenetetramine	C	R21, 34, 43, 52/53	112-24-3	< 10
Polyoxypropylendiamin	Xn, C	R22, 34	9046-10-0	< 5
Nonylphenol	Xn, C, N	R22, 34, 62, 50/53, R63	25154-52-3	< 5
2-piperazin-1-ylethylamine	Xn, C	R21/22, 34, 43, 52/53	140-31-8	< 5

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard information: Harmful.
Corrosive.
Harmful in contact with skin and if swallowed.
Causes burns.
May cause sensitization by skin contact.
May cause cancer.
Very 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: Xn, C, N. R21/22, R34, R43, R45, R50/53, R62, R63.



4: FIRST AID MEASURES

Eyes:	Check for contact lenses and remove them, Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.
Skin:	Remove contaminated clothing, jewellery, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention if needed.
Inhalation:	Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothes such as collar, tie, belt or waistband. If affected person is conscious give plenty of water to drink. Get medical attention immediately.

5: FIRE FIGHTING MEASURES

Flash Point (Closed Cup):	> 128°C.
Extinguishing Media:	Regular dry chemical, carbon dioxide, "Water, regular foam. For large fires: Use regular foam or flood with fine water spray.
Personal Protective Equipment:	Self-contained breathing apparatus and full protective clothing.
Special Exposure Hazards:	In melting, vapor/air mixtures are explosive above flash point. Toxic fumes such as carbon oxides and nitrogen oxides may be generated.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Immediately issue NO SMOKING and NO NAKED FLAMES warnings. Wear suitable protective clothing, gloves and eye/face protection Caution! Floor and other surfaces may be slippery. Ventilate area of leak or spill. Large and uncontained spillage should be smoother with foam to reduce the risk of ignition.
Environmental Precautions:	Prevent material from reaching sewage system, holes and cellars.
Decontamination Procedures:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. Wash hands thoroughly after contact.
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. Not compatible with copper alloys.

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Eye Protection:	Use chemical safety goggles and/or a full face shield where splashing is possible.
Skin Protection:	Wear impervious clothing, including boots, gloves, lab coats, aprons or coveralls.
Respiratory Protection:	A system of local and/or general exhaust is recommended to keep employee below the Airbone Exposure Limit. If the exposure limit is exceeded, a half-face dust/mist respirator may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respiratory supplier.
Hygiene Measures:	Change contaminated clothing and clean before re-use.
Engineering Controls:	Use only in well ventilated areas. Local exhaust ventilation is recommended.
Exposure Limits:	Coal tar pitch volatiles: 0.2 mg/m ³ OSHA TWA (benzene soluble fraction). 0.2 mg/m ³ ACQHT WA (benzene soluble fraction). 0.1 mg/m ³ NIOSH recommended TWA 10 hours (cyclohexane extractable fraction)

9: PHYSICAL AND CHEMICAL PROPERTIES

Form:	Liquid
Colour:	Black
Odour:	Characteristic
Boiling Point (°C):	Not applicable
Relative Density (@15°C):	1.50 - 1.55
Water Solubility:	Not applicable



10: STABILITY AND REACTIVITY

Stability:	Stable at ambient temperature. Avoid heat.
Chemical Incompatibility:	Strong oxidizing agents, strong acids and bases. Incompatible with aldehydes, ketones, halogenated hydrocarbons, copper.
Hazardous Polymerization:	In fire toxic fumes may be generated.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on knowledge of the toxicity of the product's components. Expected oral LD50, rat > 4340 mg/kg.

Health Effects

On Eyes:	Irritating to eyes.
On Skin:	Irritating to skin.
By Inhalation:	Can cause irritation to eyes, nose and throat due to exposure to vapor.
By Ingestion:	May cause irritation of mouth, throat and digestive tract.

12: ECOLOGICAL INFORMATION

Environmental Assessment:	Toxic to aquatic organisms.
Mobility:	Not applicable.
Degradability:	Not applicable.
Bioaccumulation:	Not applicable.
Environmental Toxicity:	Do not allow product to reach ground water, water bodies or sewage system. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

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:	Must be disposed off through an authorized waste contractor.

14: TRANSPORT INFORMATION



UN Number:

1760

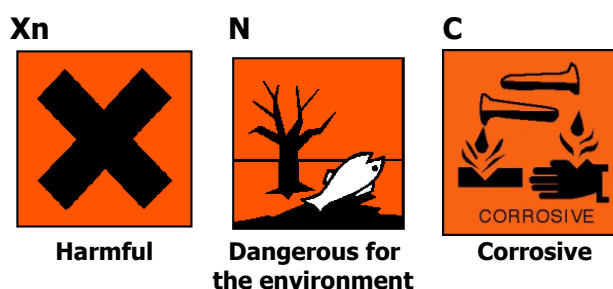
Transport Name:

Corrosive liquids, n.o.s.

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

15: REGULATORY INFORMATION

Hazard Label Data:



Named Ingredients: Coal tar, hardening agent.

Risk Phrases:

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R45	May cause cancer.
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:

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.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S53	Avoid exposure, obtain special instructions before use.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheet.

16: OTHER INFORMATION

Issue Date: 11/11/2013 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.

