



Material SAFETY DATA SHEET

Strongcoat ZR471 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: **Strongcoat ZR471 - Hardener**

Description: Hardener component of two component epoxy based zinc rich primer for steel

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

Date Prepared: 11.11.2013

MSDS Number: DCP-IND/04/01-H

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Polyamine adduct, plasticizer, and aromatic solvent.

Hazardous Ingredient(s)	Symbol	Risk Phrases	CAS No.	%
Polyamine adduct	C, F	R10, 20, 34, 37/38, 42/43, 67	-	50-75
Solvent	Xn,F	R10	64742-95-6	20-35
2,4,6-tris(dimethylaminomethyl) phenol	Xn	R22, 36/38	90-72-2	< 5
Liquid polysulphide polymer with thiol end groups (MG < 1800)	N	R51/53	68611-50-7	< 5

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Corrosive.
Flammable.
Causes burns.
Harmful by inhalation, in contact with skin and if swallowed.
May cause sensitization by inhalation and skin contact.

Classification: C, F, Xn. R10, 20/22, 34, 36/37/38, 42/43, 51/53, 67



4: FIRST AID MEASURES

Eyes:	Irrigate 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.

5: FIRE FIGHTING MEASURES

Extinguishing Media:	Carbon dioxide, powder, foam or water.
Personal Protective Equipment:	Self-contained breathing apparatus. Standard aluminized suit.
Special Exposure Hazards:	Toxic fumes. Nitrogen compounds.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions:	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.



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 to clear
Odour:	Aromatic/sharp
pH (concentrate):	Not applicable
Boiling Point (°C) :	> 115
Flash Point (closed cup) (°C):	23
Autoflammability (°C):	Autoignition temperature > 300
Explosive Properties (%):	Lower Explosive Limit (LEL): 1.0% (by volume) Upper Explosive Limit (UEL): 11.5% (by volume)
Relative Density (@25°C):	0.9 – 1.0
Water Solubility:	Partially soluble

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 > 2000 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 containing volatile compounds. Partially soluble 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



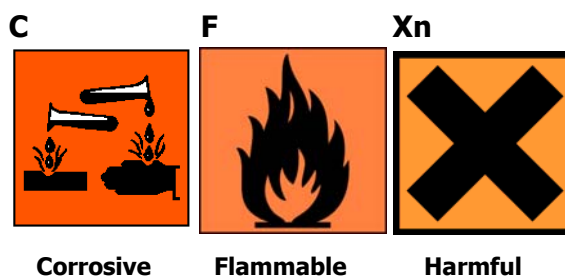
UN Number: 1263

Transport Name: Paints, flash point between 21°C and 55°C.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMO	3.3	II	No
Air Transport	IATA/ICAO	3	II	
At land	RID/ADR	3	II	

15: REGULATORY INFORMATION

Hazard Label Data:



UN Number: 1866

Risk Phrases:

R10	Flammable
R20/22	Harmful by inhalation and if swallowed.
R34	Causes burns.
R36/37/38	Irritating to eyes, skin and respiratory system.
R42/43	May cause sensitization by inhalation and skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

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.
S37/39	Wear suitable 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

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.