

Material SAFETY DATA SHEET Strongcoat CR402 - Hardener

1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Strongcoat ZR471 - Hardener

Description: Hardener component of two part high chemical resistant solvent free

epoxy protective coating for concrete and metal

Manufacturer: **Don Construction Chemicals India LTD**

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www.dcp-int.com

Date Prepared: 23.10.2013

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

2: COMPOSITION / INFORMATION ON INGREDIENTS

Composition: Polyamine adducts plasticizer, and aromatic solvent.

Risk Phrases CAS No. % Hazardous Ingredient(s) Symbol Methylene Dianiline T, Xn, N R23/24/25, 39, 43, 48, 51/53 101-77-9 15 - 60 15 - 50 Epoxy resin Xi, N R36/38, 43, 51/53 25068-38-6 1,2-Epoxy-3-Phenoxypropane T, Xn, N R20, 37/38, 43, 45, 122-60-1 8 - 15 R52/53, 68

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Hazard Information: Toxic by inhalation, in contact with skin and if swallowed.

Danger of very serious irreversible effects.

May cause cancer.

Danger of serious damage to health by prolonged exposure.

Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Classification: T, Xn, N. R23/24/25, R39, 45, 48, 51/53



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 for 10

minutes or longer. Remove contaminated clothes and shoes. Transfer to

hospital if there are burns or symptoms of poisoning.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing

so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

Transfer to hospital as soon as possible.

Ingestion: Do not induce vomiting. If conscious, give 1 pint of water to drink

immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the

recovery position. Transfer to hospital as soon as possible.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, powder, foam.

Personal Protective Equipment: Self-contained breathing apparatus. Standard aluminized suit.

Special Exposure Hazards: Toxic fumes. Nitrogen and carbon oxides.

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.



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.

9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Colour: Yellowish to brown

Odour: Light

pH (concentrate): Not applicable
Boiling Point ($^{\circ}$ C): Not applicable
Flash Point (closed cup) ($^{\circ}$ C): Not applicable
Autoflammability ($^{\circ}$ C): Not applicable
Explosive Properties ($^{\circ}$ C): Not applicable
Relative Density ($^{\circ}$ 25 $^{\circ}$ C): $^{\circ}$ 1.05 – 1.15

Water Calchiller

Water Solubility: Insoluble

10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to Avoid: Humidity, elevated temperatures

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 > 1665 mg/kg.

Classified as skin sensitizer.

Health Effects

On Eyes: Irritant.

On Skin: 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: 2810

Transport Name: Toxic liquid, Organic, n.o.s.

Transport Type:		Class:	Pack Group:	Marine Pollutant
At Sea	IMO	6.1	III	No
Air Transport	IATA/ICAO	6.1	III	
At land	RID/ADR	6.1	III	



15: REGULATORY INFORMATION

Hazard Label Data:





Toxic

UN Number: 2810

Risk Phrases:

R23/24/25 Toxic by inhalation, in contact with skin and if

swallowed.

R39 Danger of very serious irreversible effects.

R45 May cause cancer.

R48 Danger of serious damage to health by prolonged

exposure.

R51/53 Toxic to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

Safety Phrases:

S24/25 Avoid contact with skin and eyes.

S37 Wear suitable gloves.

S45 In case of accident or if you feel unwell, seek medical

advice immediately (show the label where possible).

16: OTHER INFORMATION

Issue Date: 23/10/2013 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.