



SAFETY DATA SHEET STRONGCOAT WD HARDENER CLEAR

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name STRONGCOAT WD HARDENER CLEAR
Internal identification SCWDCLR/10

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Component of epoxy coating system
Uses advised against None

1.3. Details of the supplier of the safety data sheet

Supplier Don Construction Products Ltd.,
Churnetside Business Park,
Station Road,
Cheddleton,
Staffordshire ST13 7RS

Tel: 01538 361799 Mon-Fri 08:30 - 17:00 (excl bank holidays)
Fax: 01538 361899
E-Mail: info@donconstruction.co.uk

1.4. Emergency telephone number

Emergency telephone 01538 361799 Mon-Fri 8.30am - 5.00pm (excluding Bank Holidays)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xi; R36/38. R43, R52/53

Human health This product can cause burns, May cause sensitisation or allergic reactions in sensitive individuals.

Environmental The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

STRONGCOAT WD HARDENER CLEAR

Pictogram



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P313 Get medical advice/attention.
 P501 Dispose of contents/container in accordance with national regulations.

Contains

TETRAETHYLENEPENTAMINE

Supplementary precautionary statements

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

TETRAETHYLENEPENTAMINE		1-10%
CAS number: 112-57-2	EC number: 203-986-2	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Skin Corr. 1B - H314	C;R34 Xn;R21/22 R43 N;R51/53	
Skin Sens. 1 - H317		
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Eye Dam. 1 - H318		
Aquatic Chronic 2 - H411		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments

Amine curing agent

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from source of contamination.

Inhalation

Move affected person to fresh air at once. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get medical attention immediately.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

STRONGCOAT WD HARDENER CLEAR

Eye contact Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation May cause discomfort.

Ingestion May cause discomfort if swallowed.

Skin contact Causes severe burns. May cause an allergic skin reaction.

Eye contact Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic gases/vapours/fumes of: Oxides of the following substances: Carbon. Nitrogen.

Hazardous combustion products Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses. Avoid discharge into drains or watercourses or onto the ground. Contain spillages with sand, earth or any suitable absorbent material.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with sand or other inert absorbent. Collect spillage in containers, seal securely and deliver for disposal as hazardous waste.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health hazards. For waste disposal, see section 13.

STRONGCOAT WD HARDENER CLEAR

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in closed original container at temperatures between 5°C and 30°C. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

2-ETHYLHEXANOL (CAS: 104-76-7)

DNEL	<p>Workers - Inhalation; Short term local effects: 106.4 mg/m³</p> <p>Workers - Inhalation; Long term systemic effects: 53.2 mg/m³</p> <p>Workers - Dermal; Long term systemic effects: 23 mg/kg</p> <p>Consumer - Inhalation; Short term local effects: 53.2 mg/m³</p> <p>Consumer - Inhalation; Long term systemic effects: 2.3 mg/m³</p> <p>Consumer - Dermal; Long term systemic effects: 11.4 mg/kg</p> <p>Consumer - Oral; Long term systemic effects: 1.1 mg/kg</p>
PNEC	<p>- Fresh water; 0.017 mg/l</p> <p>- Marine water; 0.0017 mg/l</p> <p>- Sediment (Freshwater); 0.28 mg/kg</p> <p>- Sediment (Marinewater); 0.028 mg/kg</p> <p>- Soil; 0.047 mg/kg</p> <p>- Intermittent release; 0.17 mg/l</p> <p>- STP; 10 mg/l</p>

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Personal protection

Always check applicability with your supplier of protective equipment.

Eye/face protection

If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Nitrile gloves to BSEN374 are recommended. Break through times can vary depending on thickness, use and source. Change gloves regularly.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination. Wear apron or protective clothing in case of contact.

STRONGCOAT WD HARDENER CLEAR

Hygiene measures	Provide eyewash station. Promptly remove any clothing that becomes contaminated. Wash promptly with soap and water if skin becomes contaminated. Wash contaminated clothing before reuse.
Respiratory protection	No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.
Environmental exposure controls	Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Amber.
Odour	Slight.
Odour threshold	Not determined.
pH	Not applicable.
Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.20 approx @ 20°C
Bulk density	Not determined.
Solubility(ies)	Soluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	1500 approx cP @ 20°C
Explosive properties	Not applicable.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not determined.
Comments	Information given is applicable to the product in its ready-to-use form.

9.2. Other information

STRONGCOAT WD HARDENER CLEAR

Other information	None.
Refractive index	Not determined.
Particle size	Not applicable.
Molecular weight	Not determined.
Volatility	Not determined.
Saturation concentration	Not applicable.
Critical temperature	Not determined.
Volatile organic compound	Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Strong alkalis. Strong oxidising agents.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Conditions to avoid Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong alkalis. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

Notes (oral LD₅₀) No specific test data are available.

ATE oral (mg/kg) 9,311.92

Acute toxicity - dermal

Notes (dermal LD₅₀) No specific test data are available.

ATE dermal (mg/kg) 20,486.22

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No specific test data are available.

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin.

Animal data No specific test data are available.

STRONGCOAT WD HARDENER CLEAR

Human skin model test	No specific test data are available.
Extreme pH	No specific test data are available.
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Corrosivity to eyes is assumed.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not determined.
<u>Skin sensitisation</u>	
Skin sensitisation	Sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	No specific test data are available. Does not contain any substances known to be mutagenic.
Genotoxicity - in vivo	No specific test data are available. Does not contain any substances known to be mutagenic.
<u>Carcinogenicity</u>	
Carcinogenicity	No specific test data are available. Does not contain any substances known to be carcinogenic.
IARC carcinogenicity	Not listed.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No specific test data are available. Does not contain any substances known to be toxic to reproduction.
Reproductive toxicity - development	Not considered to be toxic to the reproductive system.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No specific test data are available. Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No specific test data are available. Not classified as a specific target organ toxicant after repeated exposure.
<u>Aspiration hazard</u>	
Aspiration hazard	Not relevant.
<u>General information</u>	
General information	No specific health hazards known.
Inhalation	May cause some discomfort in poorly ventilated areas.
Ingestion	May cause discomfort if swallowed.
Skin contact	Causes severe burns. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage.
Acute and chronic health hazards	Causes severe burns. May cause severe eye irritation. Mild dermatitis, allergic skin rash.
Route of entry	Skin and/or eye contact
Target organs	Eyes Skin
Medical symptoms	Chemical burns. Allergic rash.
Medical considerations	Pre-existing eye problems. Skin disorders and allergies.

STRONGCOAT WD HARDENER CLEAR

Toxicological information on ingredients.

POLYETHER MODIFIED TRISILOXANE

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

SECTION 12: Ecological Information

Ecotoxicity The product should not be allowed to enter drains, sewers or watercourses. The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

Toxicity Not measured. Do not allow to enter waterways or drains

Acute toxicity - fish Not determined

Acute toxicity - aquatic invertebrates Not determined.

Acute toxicity - aquatic plants Not determined.

Acute toxicity - microorganisms Not determined.

Acute toxicity - terrestrial Not determined.

Chronic toxicity - fish early life stage Not determined.

Short term toxicity - embryo and sac fry stages Not determined.

Chronic toxicity - aquatic invertebrates Not determined.

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Phototransformation Not determined.

Stability (hydrolysis) Not determined.

Biodegradation Not determined.

Biological oxygen demand Not determined.

Chemical oxygen demand Not determined.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems.

STRONGCOAT WD HARDENER CLEAR

Adsorption/desorption coefficient Not determined.

Henry's law constant Not determined.

Surface tension Not determined.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Small quantities may be treated with an equivalent quantity of product resin, allowed to cure and disposed of as low hazard waste. Larger quantities should be disposed of as hazardous waste via a licensed waste operator. Product containers must not be re-used without commercial cleaning.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1760

UN No. (IMDG) 1760

UN No. (ICAO) 1760

UN No. (ADN) 1760

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, N.O.S. (CONTAINS TETRAETHYLENEPENTAMINE)

Proper shipping name (IMDG) CORROSIVE LIQUID, N.O.S. (CONTAINS TETRAETHYLENEPENTAMINE)

Proper shipping name (ICAO) CORROSIVE LIQUID, N.O.S. (CONTAINS TETRAETHYLENEPENTAMINE)

Proper shipping name (ADN) CORROSIVE LIQUID, N.O.S. (CONTAINS TETRAETHYLENEPENTAMINE)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C9

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



STRONGCOAT WD HARDENER CLEAR

14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-A, S-B
ADR transport category	2
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).
Guidance	Workplace Exposure Limits EH40. Safety Data Sheets for Substances and Preparations.
Authorisations (Title VII Regulation 1907/2006)	No specific authorisations are known for this product.
Restrictions (Title VIII Regulation 1907/2006)	No specific restrictions on use are known for this product.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information	Don Construction Products Ltd. Technical Datasheet.
Key literature references and sources for data	Health and Safety Executive Guidance Note EH40 (amended annually). Workplace Exposure Limits.
Revision comments	Section 9: update. Section 11 update. Section 12 update.
Revision date	08/06/2016
Revision	10
Supersedes date	28/11/2014

STRONGCOAT WD HARDENER CLEAR

SDS status

Approved.

Risk phrases in full

R20 Harmful by inhalation.

R21/22 Harmful in contact with skin and if swallowed.

R34 Causes burns.

R36 Irritating to eyes.

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.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full

H302 Harmful if swallowed.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.