SAFETY DATA SHEET
STRONGCOAT FHB HARDENER

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

1.1. Product identifier

Product name STRONGCOAT FHB HARDENER

Internal identification SCFHBH/9

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

Identified uses Component of epoxy coating system

Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet

Supplier

Don Construction Products Ltd.,
Hawthorn House
Helions Bumpstead Road
Haverhill
Suffolk
CB9 7AA
Tel: 01538 361799 Mon-Fri 08:30 - 17:00 (excl bank holidays)
Fax: 01538 361899
E-Mail: info.uk@dcp-int.com

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 (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1A - H314 Skin Sens. 1 - H317 Repr. 2 - H361fd

Environmental hazards Aquatic Chronic 2 - H411

Classification (67/548/EEC or 1999/45/EC) Xn;R22. Repr. Cat. 3;R62,R63. C;R34. R43. N;R50/53.

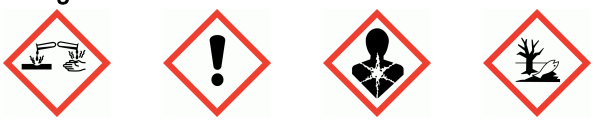
Human health The product contains a sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals. This product can cause burns, Contains a substance with possible risk of harm to the unborn child. Contains a substance with possible risk of impaired fertility.

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

2.2. Label elements

STRONGCOAT FHB HARDENER

Pictogram



Signal word	Danger
Hazard statements	H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H411 Toxic 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. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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.
Contains	NONYLPHENOL, 3-AMINOMETHYL-3, 5, 5 - TRIMETHYLCYCLOHEXYLAMINE, BENZYL ALCOHOL, TRIMETHYLHEXAMETHYLENEDIAMINE, AMINES, COCO ALKYL, M-PHENYLENEBIS(METHYLAMINE), 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL
Supplementary precautionary statements	P260 Do not breathe vapour/ spray. P270 Do not eat, drink or smoke when using this product. P401 Store in accordance with national regulations. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

NONYLPHENOL **10-30%**

CAS number: 25154-52-3 EC number: 246-672-0

M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Repr. 2 - H361fd
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)

Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53

STRONGCOAT FHB HARDENER

BENZYL ALCOHOL **1-10%**

CAS number: 100-51-6 EC number: 202-859-9 REACH registration number: 01-2119492630-38-0000

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H332

Classification (67/548/EEC or 1999/45/EC)
Xn;R20/22

3-AMINOMETHYL-3, 5, 5 - TRIMETHYLCYCLOHEXYLAMINE **1-10%**

CAS number: 2855-13-2 EC number: 220-666-8 REACH registration number: 01-2119514687-32-0000

Classification
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)
Xn;R21/22. C;R34. R43,R52/53.

TRIMETHYLHEXAMETHYLENEDIAMINE **1-10%**

CAS number: 25620-58-0

Classification
Acute Tox. 4 - H302
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)
Xn;R22. C;R34. R43,R52/53.

AMINES, COCO ALKYL **1-10%**

CAS number: 61788-46-3 EC number: 262-977-1

M factor (Acute) = 10

Classification
Acute Tox. 4 - H302
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335
STOT RE 2 - H373
Asp. Tox. 1 - H304
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

Classification (67/548/EEC or 1999/45/EC)
Xn;R22,R48/22,R65. C;R35. N;R50/53.

STRONGCOAT FHB HARDENER

M-PHENYLENEBIS(METHYLAMINE) **1-5%**

CAS number: 1477-55-0 EC number: 216-032-5 REACH registration number: 01-2119480150-50-0000

Classification
Acute Tox. 4 - H302
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)
Xn;R20/22. C;R34. R43,R52/53.

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL **1-5%**

CAS number: 90-72-2 EC number: 202-013-9 REACH registration number: 01-2119560597-27-0000

Classification
Skin Corr. 1C - H314
Eye Dam. 1 - H318
Skin Sens. 1B - H317

Classification (67/548/EEC or 1999/45/EC)
Xn;R22 Xi;R36/38

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.

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 Irritation of nose, throat and airway. May cause an asthma-like shortness of breath. Vapours may cause headache, fatigue, dizziness and nausea.

Ingestion Harmful if swallowed.

Skin contact May cause serious chemical burns to the skin. May cause skin irritation/eczema.

Eye contact Severe irritation, burning and tearing.

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

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

STRONGCOAT FHB HARDENER

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. No unusual fire or explosion hazards noted.

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 Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid inhalation of vapours and contact with skin and eyes. Evacuate non-essential personnel from the spill area. Use suitable respiratory protection if ventilation is inadequate.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Do not eat, drink or smoke when using the product. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Avoid inhalation of vapours/spray and contact with skin and eyes. Provide adequate ventilation. Use approved respirator if air contamination is above an acceptable level.

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)

STRONGCOAT FHB HARDENER

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

Ingredient comments Due to the hazardous nature of ingredients, exposure should be minimal.

3-AMINOMETHYL-3, 5, 5 - TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)

DNEL Workers - Inhalation; : 20.1 mg/m³

PNEC
- Fresh water; 0.06 mg/l
- Marine water; 0.006 mg/l

BENZYL ALCOHOL (CAS: 100-51-6)

DNEL
Workers - Dermal; : 9.5 mg/kg
Workers - Inhalation; : 90 mg/m³

PNEC
- Fresh water; 1.0 mg/l
- Marine water; 0.1 mg/l

AMINES, COCO ALKYL (CAS: 61788-46-3)

DNEL
Workers - Inhalation; Long term systemic effects: 0.38 mg/m³
Workers - Dermal; Long term systemic effects: 0.09 mg/kg/day
Workers - Dermal; Long term local effects: 600 ppm
Consumer - Oral; Long term systemic effects: 0.04 mg/kg/day

PNEC
- Fresh water; 0.00026 mg/l
- Marine water; 0.000026 mg/l
- Intermittent release; 0.0016 mg/l
- STP; 0.55 mg/l
- Sediment (Freshwater); 0.1794 mg/l
- Sediment (Marinewater); 0.1794 mg/l
- Soil; 10 mg/kg
- ;

M-PHENYLENEBIS(METHYLAMINE) (CAS: 1477-55-0)

PNEC
- Fresh water; 0.094 mg/l
- Marine water; 0.0094 mg/l

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

DNEL Workers - Inhalation; Long term systemic effects: 0.31 mg/m³

PNEC
- Fresh water; 0.084 mg/l
- Marine water; 0.0084 mg/l
- Intermittent release; 0.84 mg/l
- STP; 0.2 mg/l

SALICYLIC ACID (CAS: 69-72-7)

DNEL Workers - Dermal; : 2 mg/kg/day

STRONGCOAT FHB HARDENER

PNEC	- Fresh water; 0.2 mg/l - Marine water; 0.02 mg/l

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	The following protection should be worn: Chemical splash goggles.
Hand protection	It is recommended that chemical-resistant, impervious gloves are worn. 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.
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	In case of inadequate ventilation use a respirator suitable for organic vapours. Consult respirator manufacturer for specific advice.
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	Amine.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not applicable.
Initial boiling point and range	Not determined.
Flash point	112 approx°C
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.

STRONGCOAT FHB HARDENER

Vapour density	Not determined.
Relative density	1.0 approx @ 20°C
Bulk density	Not determined.
Solubility(ies)	Partially miscible with water
Partition coefficient	Not determined.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
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

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: Strong alkalis. Strong oxidising agents. Acids.

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. No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Considerable exothermic reaction can occur when mixed with epoxide resins

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

STRONGCOAT FHB HARDENER

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 LD_{50}) No specific test data are available.

ATE oral (mg/kg) 872.07

Acute toxicity - dermal

Notes (dermal LD_{50}) No specific test data are available.

ATE dermal (mg/kg) 12,571.43

Acute toxicity - inhalation

Notes (inhalation LC_{50}) No specific test data are available.

ATE inhalation (vapours mg/l) 50.97

Skin corrosion/irritation

Skin corrosion/irritation Corrosive to skin., Causes severe burns.

Animal data No specific test data are available.

Human skin model test No specific test data are available.

Extreme pH No specific test data are available.

Serious eye damage/irritation

Serious eye damage/irritation Corrosivity to eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation No specific test data are available.

Skin sensitisation

Skin sensitisation No specific test data are available.

Germ cell mutagenicity

Genotoxicity - in vitro Does not contain any substances known to be mutagenic.

Genotoxicity - in vivo Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity Does not contain any substances known to be carcinogenic.

IARC carcinogenicity Not listed.

Reproductive toxicity

Reproductive toxicity - fertility Suspected of damaging fertility.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

STRONGCOAT FHB HARDENER

Aspiration hazard	Not relevant.
General information	Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
Inhalation	Vapours may irritate throat/respiratory system.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Harmful if swallowed.
Skin contact	Causes burns. May cause sensitisation by skin contact.
Eye contact	May cause chemical eye burns.
Acute and chronic health hazards	This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. Suspected of damaging fertility. Suspected of damaging the unborn child.
Route of entry	Skin and/or eye contact
Target organs	Eyes Skin
Medical symptoms	Prolonged or repeated exposure may cause the following adverse effects: Allergic rash. Chemical burns.
Medical considerations	Skin disorders and allergies. Splash in eye requires examination by eye specialist.

BENZYL ALCOHOL

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)	11.0

AMINES, COCO ALKYL

Acute toxicity - oral

ATE oral (mg/kg)	500.0

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	1,242.0
Species	Rabbit

SALICYLIC ACID

Acute toxicity - oral

Notes (oral LD_{50})	LD_{50} 891 mg/kg, Oral, Rat
ATE oral (mg/kg)	500.0

Acute toxicity - dermal

Notes (dermal LD_{50})	LD_{50} > 2000 mg/kg, Dermal, Rat

SECTION 12: Ecological Information

Ecotoxicity	The product should not be allowed to enter drains, sewers or watercourses. Toxic to aquatic life with long lasting effects.

12.1. Toxicity

STRONGCOAT FHB HARDENER

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.

NONYLPHENOL

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 0.209 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.085 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 96 hours: 0.41 mg/l, Fish
Acute toxicity - microorganisms	EC_{50}, 3 hours: 950 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, 91 days: 0.006 mg/l, Algae
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.024 mg/l, Daphnia magna

TRIMETHYLHEXAMETHYLENEDIAMINE

Acute toxicity - aquatic plants	EC_{50}, 72 hours: 29.5 mg/l, Fish

AMINES, COCO ALKYL

Acute aquatic toxicity

LE(C)$_{50}$	0.1 < L(E)C50 ≤ 1

STRONGCOAT FHB HARDENER

M factor (Acute)	10
Acute toxicity - fish	LC_{50}, 96 hours: 0.84 mg/l, Algae
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.32 mg/l, Daphnia magna
Acute toxicity - aquatic plants	, 72 hours: 0.08 mg/l, Fish
Acute toxicity - microorganisms	EC_{50}, 3 hours: 222.5 mg/l, Activated sludge

Chronic aquatic toxicity

NOEC	0.01 < NOEC ≤ 0.1
Degradability	Rapidly degradable
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 0.013 mg/l, Daphnia magna

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - fish	LC50, 96 hours: 175 mg/l, Algae
Acute toxicity - aquatic invertebrates	LC_{50}, 96 hours: 718 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 84 mg/l, Fish

SALICYLIC ACID

Acute toxicity - fish	LC_{50}, 96 hours: 1380 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 870 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: > 100 mg/l, Desmodesmus subspicatus

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.

NONYLPHENOL

Persistence and degradability	The product is readily biodegradable.

TRIMETHYLHEXAMETHYLENEDIAMINE

STRONGCOAT FHB HARDENER

Persistence and degradability Not readily biodegradable.

AMINES, COCO ALKYL

Persistence and degradability The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

NONYLPHENOL

Partition coefficient log Pow: 5.4

TRIMETHYLHEXAMETHYLENEDIAMINE

Bioaccumulative potential Low

Partition coefficient log Pow: 0.77

AMINES, COCO ALKYL

Bioaccumulative potential Low

Partition coefficient log Pow: 1.16 - 9.16

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Bioaccumulative potential Low

Partition coefficient log Pow: 0.219

12.4. Mobility in soil

Mobility The product is non-volatile.

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 Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

STRONGCOAT FHB HARDENER

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) 2735

UN No. (IMDG) 2735

UN No. (ICAO) 2735

UN No. (ADN) 2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID) AMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOL, AMINES, COCO ALKYL)

Proper shipping name (IMDG) AMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOL, AMINES, COCO ALKYL)

Proper shipping name (ICAO) AMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOL, AMINES, COCO ALKYL)

Proper shipping name (ADN) AMINES, LIQUID, CORROSIVE, N.O.S. (NONYLPHENOL, AMINES, COCO ALKYL)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C7

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels

14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ADN packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

14.6. Special precautions for user

STRONGCOAT FHB HARDENER

EmS	F-A, S-B
ADR transport category	3
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL 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 1 update
Revision date	08/03/2017
Revision	9
Supersedes date	03/05/2016
SDS status	Approved.

STRONGCOAT FHB HARDENER

Risk phrases in full

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R20/22 Harmful by inhalation and if swallowed.
R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R36/38 Irritating to eyes and skin.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50/53 Very 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.
R62 Possible risk of impaired fertility.
R63 Possible risk of harm to the unborn child.
R65 Harmful: may cause lung damage if swallowed.

Hazard statements in full

H302 Harmful if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H304 May be fatal if swallowed and enters airways.
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.
H315 Causes skin irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H335 May cause respiratory irritation.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
H373 May cause damage to organs (Gastro-intestinal tract, liver, immune system) through prolonged or repeated exposure.
H373 May cause damage to organs (Gastro-intestinal tract, liver, immune system) through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H410 Very 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.

STRONGCOAT FHB HARDENER