

SAFETY DATA SHEET STRONGCOAT TOPPING HARDENER

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

1.1. Product identifier

Product name STRONGCOAT TOPPING HARDENER

SCTOPPINGH/11 Internal identification

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.,

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 Eye Dam. 1 - H318

1999/45/EC)

Classification (67/548/EEC or Repr. Cat. 3;R62,R63. C;R34. R43. N;R51/53.

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

Pictogram









STRONGCOAT TOPPING HARDENER

Signal word Danger

Hazard statements 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 P260 Do not breathe vapour/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 DIETHYLENETRIAMINE, NONYLPHENOL

Supplementary precautionary

P262 Do not get in eyes, on skin, or on clothing.

statements P273 Avoid release to the environment.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P321 Specific treatment (see medical advice on this label).

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/container in accordance with local 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
 Classification (67/548/EEC or 1999/45/EC)

 Acute Tox. 4 - H302
 Repr. Cat. 3;R62,R63 C;R34 Xn;R22 N;R50/53

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

DIETHYLENETRIAMINE 1-10%

CAS number: 111-40-0 EC number: 203-865-4

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

Skin Corr. 1B - H314 C:R34 Xn:R21/22 R43

Skin Sens. 1 - H317 Acute Tox. 4 - H302 Acute Tox. 4 - H312 Eye Dam. 1 - H318

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

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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 May cause irritation.

Ingestion May cause discomfort 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 doctorTreat 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. 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 precautionsWear 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

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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)

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

Occupational exposure limits

DIETHYLENETRIAMINE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 4,3 mg/m³

Short-term exposure limit (15-minute): WEL

Sk

WEL = Workplace Exposure Limit Sk = Can be absorbed through skin.

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

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.

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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 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

Vapour pressure

Not determined.

Vapour density

Not determined.

Relative density 1.00 approx @ 20°C

Bulk density Not determined.

Solubility(ies) Insoluble in water.

Partition coefficient Not determined.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not determined.

Viscosity 1800 approx cP @ 20°C

Explosive properties Not applicable.

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Explosive under the influence

Not considered to be explosive.

of a flame

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

Hazardous decomposition

Oxides of carbon. Oxides of nitrogen.

products

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) 2,941.17647059

Acute toxicity - dermal

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

ATE dermal (mg/kg) 15,714.28571429

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Acute toxicity - inhalation

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

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 vitroDoes not contain any substances known to be mutagenic.

Genotoxicity - in vivoDoes 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

Aspiration hazard Not relevant.

accumulation of hazardous vapour concentrations.

Inhalation Vapours may irritate throat/respiratory system. A single exposure may cause the following

adverse effects: Coughing. Difficulty in breathing.

Ingestion May cause chemical burns in mouth, oesophagus and stomach.

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.

Route of entry Skin and/or eye contact

Target organs Eyes Skin

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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.

SECTION 12: Ecological Information

Ecotoxicity The product should not be allowed to enter drains, sewers or watercourses. Dangerous for the

environment: 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.

Not determined. Acute toxicity - terrestrial

Chronic toxicity - fish early life Not determined.

stage

Short term toxicity - embryo

and sac fry stages

Not determined.

Chronic toxicity - aquatic

invertebrates

Not determined.

Ecological information on ingredients.

NONYLPHENOL

Acute aquatic toxicity

LE(C)50 $0.1 < L(E)C50 \le 1$

M factor (Acute) 1

LC₅₀, 96 hours: 0.209 mg/l, Fish Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 0.085 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 96 hours: 0.41 mg/l, Algae

Acute toxicity microorganisms EC₅₀, 3 hours: 950 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic)

Chronic toxicity - fish early NOEC, 91 days: 0.006 mg/l, Fish

life stage

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Chronic toxicity - aquatic NOEC, 21 days: 0.024 mg/l, Daphnia magna

invertebrates

12.2. Persistence and degradability

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

Not determined.

Phototransformation Not determined.

Stability (hydrolysis) Not determined.

Biological oxygen demand Not determined.

Ecological information on ingredients.

Chemical oxygen demand

NONYLPHENOL

Persistence and degradability

The product is readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

NONYLPHENOL

Partition coefficient log Pow: 5.4

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

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

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14.1. UN number

UN No. (ADR/RID) 1760 UN No. (IMDG) 1760 UN No. (ICAO) 1760

14.2. UN proper shipping name

Proper shipping name

CORROSIVE LIQUID, N.O.S. (NONYLPHENOL)

(ADR/RID)

Proper shipping name

CORROSIVE LIQUID, N.O.S. (NONYLPHENOL)

(IMDG)

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

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

14.3. Transport hazard class(es)

ADR/RID class 8
ADR/RID label 8
IMDG class 8
ICAO class/division 8

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-B

Emergency Action Code 2X

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (E)

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

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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).

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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 07/06/2016

Revision 11

Supersedes date 25/04/2014
SDS status Approved.

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

R22 Harmful if swallowed. R34 Causes burns.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R51/53 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.

Hazard statements in full H302 Harmful if swallowed.

H318 Causes serious eye damage. H312 Harmful in contact with skin.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic 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.