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**SAFETY DATA SHEET**

This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Product Name: Sports-Cote Floor Seal Diamond Hardener
- Product Part Number: C11/SC/FSD-H

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

- Use of the substance/mixture: Hardener part of two component Water Based Floor Sealer

**1.3 Details of the supplier of the safety data sheet**

- Name of Supplier: Don Construction Products Ltd.
- Address of Supplier: Hawthorn House  
Helions Bumpstead Rd,  
Haverhill CB9 7AA,  
United Kingdom
- Telephone: +44 1 4407 66360
- Fax: +44 1 4407 68897
- Email: Info@donconstruction.co.uk  
info.uk@dcp-int.com

**1.4 Emergency telephone number**

- Emergency Telephone: +44 1 4407 66360 (available during office hours)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

- CLP: Skin Sens. 1, Acute Tox. 4, STOT SE 3, Aquatic Chronic 3, Skin Irrit. 2, Eye Dam. 1, Resp. Sens. 1

**2.2 Label elements**

- Signal Word: Danger
- Hazard statements
  - H227 - Combustible liquid.
  - H332 - Harmful if inhaled.
  - H317 - May cause an allergic skin reaction.
  - H315 - Causes skin irritation.

**SECTION 2: Hazards identification (....)**

H335 - May cause respiratory irritation.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H318 - Causes serious eye damage.

H412 - Harmful to aquatic life with long lasting effects.

EUH204 - Contains isocyanates. May produce an allergic reaction.

- Precautionary statements

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

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P273 - Avoid release to the environment.

P264 - Wash contaminated skin thoroughly after handling.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

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

P363 - Wash contaminated clothing before reuse.

P271 - Use only outdoors or in a well-ventilated area.

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

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

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

P501 - Dispose of contents/container to an authorised waste collection point

P405 - Store locked up.

P272 - Contaminated work clothing should not be allowed out of the workplace.

### 2.3 Other hazards

- Contains: Hexamethylene diisocyanate, oligomers  
cyclohexyldimethylamine

Combustible liquid.

On contact with water carbon dioxide is released.

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**SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

- Hexamethylene diisocyanate, oligomers

CAS Number: 28182-81-2

EC Number: 500-060-2

Concentration: 35 - 45%

Categories: Acute Tox. 4, Skin Sens. 1, STOT SE 3

Symbols: GHS07

H Statements: H317, H332, H335

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**SECTION 3: Composition/information on ingredients (....)**

- Oligomers of isophorone diisocyanate
  - CAS Number: 53880-05-0
  - EC Number: 500-125-5
  - Concentration: 10 - 20%
  - Categories: Skin Sens. 1
  - Symbols: GHS07
  - H Statements: H317
  
- Polyoxyethylene tridecyl ether phosphate.
  - CAS Number: 9046-01-9
  - EC Number: -
  - Concentration: 1 - 10%
  - Categories: Skin Corr. 1C, Eye Dam. 1, Aquatic Chronic 2
  - Symbols: GHS09, GHS05
  - H Statements: H314, H318, H411
  
- cyclohexyldimethylamine
  - CAS Number: 98-94-2
  - EC Number: 202-715-5
  - Concentration: < 2%
  - Categories: Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Aquatic Chronic 2
  - Symbols: GHS02, GHS06, GHS09, GHS05
  - H Statements: H226, H301, H311, H314, H318, H331, H411
  
- hexamethylene-di-isocyanate..
  - CAS Number: 822-06-0
  - EC Number: 212-485-8
  - Concentration: < 0.5%
  - Categories: Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3
  - Symbols: GHS06, GHS08
  - H Statements: H331, H319, H335, H315, H334, H317
  - Specific Concentration Limits: \* Resp. Sens. 1; H334: C ≥ 0,5 % Skin Sens. 1; H317: C ≥ 0,5 %
  
- 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate; isophorone di-isocyanate
  - CAS Number: 4098-71-9
  - EC Number: 223-861-6
  - Concentration: < 0.5%
  - Categories: Acute Tox. 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, STOT SE 3, Aquatic Chronic 2
  - Symbols: GHS06, GHS08, GHS09
  - H Statements: H331, H319, H335, H315, H334, H317, H411
  - Specific Concentration Limits: \* Resp. Sens. 1; H334: C ≥ 0,5 % Skin Sens.1; H317: C ≥ 0,5 %

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Inhalation
  - Move the person away from the contaminated area.
  - Fresh air and rest.
  - Obtain medical attention.
  - Show this sheet to the doctor.
- Contact with skin
  - Use appropriate protective equipment when treating a contaminated person. Immediately remove any clothing soiled by the product.
  - Wash with soap and water. Wash immediately and thoroughly for a prolonged period (at least 15 minutes). In case of inflammation (redness, irritation, ...) obtain medical attention. Place contaminated clothing in a sealed bag for disposal.
- Contact with eyes
  - Immediately rinse with plenty of running water for a prolonged period, (at least 15 minutes) while keeping the eyes wide open.
  - If irritation persists, consult a doctor.
  - Show this sheet to the doctor.
- Ingestion
  - NEVER attempt to induce vomiting. Rinse mouth out with water.
  - Do not give anything to drink.
  - If necessary seek medical advice.
  - Show this sheet to the doctor.

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

Skin contact may aggravate existing skin disease. Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

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

- Treat symptomatically
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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Use foam, carbon dioxide or dry agent for extinction
- Do not use water jets

### 5.2 Special hazards arising from the substance or mixture

Combustible.  
During combustion toxic vapors are released.

### 5.3 Advice for firefighters

Protective equipment:  
Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

## SECTION 5: Firefighting measures (....)

Additional information:

Stay upwind.

Evacuate the personnel away from the fumes.

In case of fire close by:

Cool down the containers/equipment exposed to heat with a water spray. Ensure that there is NO direct contact between the water and the product.

Do not breathe fumes.

Do NOT attempt to fight the fire without suitable protective equipment.

If there is a fire close by and if packaging has not been damaged:

Use suitable extinguishers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes.

Do not breathe gas.

Do NOT approach from DOWNWIND.

Do NOT attempt to take action WITHOUT suitable protective equipment.

Self-contained breathing apparatus.

Full impermeable protective clothing and equipment.

Mark out the contaminated area with signs and prevent access to unauthorized personnel.

### 6.2 Environmental precautions

Avoid release to the environment.

Contain the spilled material by binding.

Do not allow product to reach sewage system or any water course.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Collect up the product and place it in a spare container suitably labelled.

Pump up the product into a spare container suitably labelled.

Wash contaminated area with large amounts of water.

Recover the cleaning water for subsequent disposal.

Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

### 6.4 Reference to other sections

- See Section 7, 8, 13

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Ensure good ventilation/aspiration at the workplace.

Avoid contact with water or humidity.

Avoid any direct contact with the product.

Any measure to eliminate exposure should be considered.

Comply with instructions for use (refer to technical sheet).

### 7.2 Conditions for safe storage, including any incompatibilities

The floor of the depot should be impermeable and designed to form a water-tight basin.

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## SECTION 7: Handling and storage (....)

Store receptacle in a well ventilated area.  
 Store in cool, dry conditions in well sealed receptacles.  
 Store only in the original receptacle.

Requirements to be met by storerooms and receptacles:  
 Product must only be kept in the original packaging.  
 - Metallic drums.  
 - Storage tank with a dry nitrogen blanket.  
 Suitable material for receptacles and pipes: Aluminium.  
 Suitable material for receptacles and pipes: steel or stainless steel.  
 Unsuitable material for receptacle: Polystyrene.  
 Unsuitable material for receptacle: Copper.  
 Unsuitable material for receptacle: Tin

### 7.3 Specific end use(s)

- No information available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate  
 REL Short-term value: 0.18 mg/m<sup>3</sup>, 0.02 ppm  
 Long-term value: 0.045 mg/m<sup>3</sup>, 0.005 ppm  
 Skin  
 TLV 0.045 mg/m<sup>3</sup>, 0.005 ppm

822-06-0 hexamethylene-di-isocyanate  
 REL Short-term value: C 0.14\* mg/m<sup>3</sup>, C 0.02\* ppm (\*10-min)  
 Long-term value: 0.035 mg/m<sup>3</sup>, 0.005 ppm  
 TLV 0.034 mg/m<sup>3</sup>, 0.005 ppm

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate  
 TLV Short-term value: 1 mg/m<sup>3</sup>

· TLV (Threshold Limit Value established by ACGIH)  
 822-06-0 hexamethylene-di-isocyanate 0.005 ppm  
 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate 0.005 ppm

· NIOSH-Ca (National Institute for Occupational Safety and Health)  
 822-06-0 hexamethylene-di-isocyanate  
 4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

### 8.2 Exposure controls

Personal protective equipment:  
 General protective and hygienic measures:  
 Ensure good ventilation of the work station.  
 Shower or take a bath at the end of work.  
 Separate normal clothes from work-clothes.  
 Immediately remove all soiled and contaminated clothing.  
 Safety shower.  
 Eye wash.  
 Emergency equipment and first-aid box with instructions readily available.

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## SECTION 8: Exposure controls/personal protection (....)

Breathing equipment:

When using a spray-gun, wear: Self-contained breathing apparatus.

In the event of insufficient ventilation: Self-contained breathing apparatus.

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Wear suitable protective clothing, eye/face protection and gloves

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Liquid
- Colour: Colourless to pale yellow
- Odour: Characteristic odour
- Boiling Point/Range: No information available
- Flashpoint: 76 °C
- Viscosity: Dynamic ~200 mPas
- pH: No information available
- Specific Gravity: 1.08 g/cm<sup>3</sup>
- Solubility in water: Reacts with water

### 9.2 Other information

- No information available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose
- Reacts with moist air or water

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

Reacts violently with water.

- alcohols.
- amines.
- bases.
- protic solvents.
- water and aqueous solutions. with a great release of CO<sub>2</sub>, and hence a risk of a pressure build-up in confined areas, and forms an insoluble solid precipitate.

### 10.4 Conditions to avoid

extreme heat  
open flame  
moisture  
static electricity

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## SECTION 10: Stability and reactivity (....)

ignition sources

### 10.5 Incompatible materials

- alcohols.
- amines.
- bases.
- protic solvents.
- water and aqueous solutions

### 10.6 Hazardous decomposition products

On thermal decomposition (pyrolysis) releases:

Toxic gases.

Carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

Harmful by inhalation.

Not harmful if swallowed.

Not harmful by skin contact.

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## SECTION 12: Ecological information

### 12.1 Toxicity

According to the data on the components:

Harmful to aquatic organisms tested.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

EC10/72h (static): 370 mg/l (Desmodesmus subspicatus) (EU C.3)

EL50/48h (static): 127 mg/l (Daphnia magna) (EU C.2)

ErC50(0-72h) (static): > 1000 mg/l (Desmodesmus subspicatus) (EU C.3)

LL0/96h: ≥ 82.8 mg/l (Brachydanio rerio) (EU C.1)

53880-05-0 3-Isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate oligomers

EC50/3h: > 10000 mg/l (bacteria) (OECD 209 EU method C.11)

EC50/48h: > 3.36 mg/l (Daphnia magna) (OECD 202 EU METHOD C.2)

EC50/72h: > 3.1 mg/l (Desmodesmus subspicatus) (OECD 201 EU method C.3)

LC50/96h (static): > 1.51 mg/l (fish)

NOEC/72h: 3.1 mg/l (Desmodesmus subspicatus) (OECD EU method C.3)

98-94-2 cyclohexyldimethylamine

EC50/48h: 75 mg/l (Daphnia magna)

EC50/72h: > 2 mg/l (algae) (DIN 38412)

IC50/96h (static): >22- < 46 mg/l (fish) (DIN 38412)

822-06-0 hexamethylene-di-isocyanate

EC0/48h (static): ≥ 89.1 mg/l (Daphnia magna) (EU C.2)

ErC50(0-72h) (static): > 77.4 mg/l (Desmodesmus subspicatus) (EU C.3)



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## SECTION 12: Ecological information (....)

LC0/96h (static):  $\geq 82.8$  mg/l (Brachydanio rerio) (EU C.1)  
NOEC/72h (static): 11.7 mg/l (Desmodesmus subspicatus) (EU C.3)

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate  
EC50/48h (static): 27 mg/l (Daphnia magna) (EU C.2, aqua)  
ErC50(0-72h) (static):  $> 70$  mg/l (Desmodesmus subspicatus) (EU C.3 (aqua))  
LC50/96h (static): 4 mg/l (Chaetogammarus marinus) (expert judgment, marin)  
> 72 mg/l (Brachydanio rerio) (EU C.1, aqua)  
NOEC/72h (static): 4.4 mg/l (Desmodesmus subspicatus) (EU C.3, aqua)

9046-01-9 Polyoxyethylene tridecyl ether phosphate  
EC50: 10 mg/l (Danio rerio)

### 12.2 Persistence and degradability

Oligomers of isophorone diisocyanate:  
Not biodegradable.  
Hexamethylene diisocyanate oligomers:  
Not biodegradable.  
Polyoxyethylene tridecyl ether phosphate.  
Inherently biodegradable.

### 12.3 Bioaccumulative potential

According to the data on the components:  
Not potentially bioaccumulable.

### 12.4 Mobility in soil

- No information available

### 12.5 Results of PBT and vPvB assessment

- Not applicable

### 12.6 Other adverse effects

- Reacts with water  
This preparation is classified as:  
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Recommendation:  
Discharging waste into rivers and drains is forbidden.  
Incinerate at a licensed installation.  
Disposal must be made according to federal, state and local regulations.

Uncleaned packagings:  
Contaminated packaging materials must be disposed of in the same manner as the product.  
Recommendation:  
Allow it to drain thoroughly.  
Thoroughly emptied and clean packagings may be recycled.  
Disposal must be made according to official regulations.

**SECTION 14: Transport information**

## 14.1 Air (ICAO/IATA)

- Not classified as hazardous for transport

## 14.2 Road/Rail (ADR/RID)

- Not classified as hazardous for transport

## 14.3 Sea (IMDG)

- Not classified as hazardous for transport

## 14.4 Environmental hazards

- No information available

## 14.5 Special precautions for user

- No information available

## 14.6 Transport in bulk according to Annex II of Marpol and the IBC Code

- No information available
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**SECTION 15: Regulatory information**

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

- This Safety Data Sheet is provided in compliance with the EC Regulation 1907/2006-2015/830
- This Safety Data Sheet is provided in compliance with the EC Directive 82/501/EEC (the Seveso Directive)

All the ingredients used in this product are registered or preregistered by our suppliers, and/or excluded from the regulation, and/or exempted from the registration.

## 15.2 Chemical safety assessment

- A REACH chemical safety assessment has not been carried out
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**SECTION 16: Other information**

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H226: Flammable liquid and vapour. H301: Toxic if swallowed. H311: Toxic in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H331: Toxic if inhaled. H332: Harmful if inhaled. H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects.

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.



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