

Created: 12 Jun 2024

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**SAFETY DATA SHEET**

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

## 1.1 Product identifier

- Product Name: Gripdeck HB UVR - Hardener
- Product Part Number: C11/06/05/182-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 glossy, UV resistant polyurethane 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: Resp. Sens. 1, Acute Tox. 4, Skin Sens. 1, STOT SE 3

## 2.2 Label elements



- Signal Word: Danger
- Hazard statements
  - H332 - Harmful if inhaled.
  - H317 - May cause an allergic skin reaction.
  - H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - H335 - May cause respiratory irritation.
  - EUH204 - Contains isocyanates. May produce an allergic reaction.
- Precautionary statements

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

- P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P284 - In case of inadequate ventilation wear respiratory protection.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P312 - Call a POISON CENTRE or doctor if you feel unwell.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- 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.
- P272 - Contaminated work clothing should not be allowed out of the workplace.

### 2.3 Other hazards

- Contains: Hexamethylene diisocyanate, oligomers

Combustible liquid.

On contact with water carbon dioxide is released.

This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens. Asthmatic sensitization can occur from a single large inhalation exposure or from repeated lower inhalation exposures. Strict observation of exposure limits is essential (see Section 8).

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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: > 99%

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

Symbols: GHS07

H Statements: H317, H332, H335

- hexamethylene-di-isocyanate..

CAS Number: 822-06-0

EC Number: 212-485-8

Concentration: < 0.2%

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 %

## 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.
  - Always obtain medical advice immediately.
  - Show this sheet to the doctor.
- Contact with skin
  - 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.
- 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.  
Under fire conditions, corrosive fumes are emitted: oxides of nitrogen oxides of carbon.  
Reacts with water releasing large amounts of carbon dioxide which may cause pressure build-up in confined spaces.

### 5.3 Advice for firefighters

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

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## 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

Do not breathe gas.

Avoid contact with the eyes and skin.

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.

Keep people at a distance and stay upwind.

### 6.2 Environmental precautions

- Avoid release to the environment.
- Do not allow to enter public sewers and watercourses
- Prevent further spillage if safe

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

Pump up the product into a spare container suitably labelled.

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

Wash contaminated area with large amounts of water.

Recover the cleaning water for subsequent disposal.

Dispose contaminated material as waste according to item 13.

Do not flush to drain.

### 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

- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Call a POISON CENTRE or doctor if you feel unwell.
- Wash contaminated clothing before reuse.

### 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.

Store in cool, dry conditions in well sealed receptacles.

Store receptacle in a well ventilated area.

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

Store away from incompatible materials.

### 7.3 Specific end use(s)

- No information available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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

### 8.2 Exposure controls



- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid contact with skin
- In case of inadequate ventilation wear respiratory protection.
- Keep container tightly closed
- Keep away from food, drink and animal feedingstuffs
- Wash hands thoroughly after using this substance

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Appearance: Liquid
- Colour: Colourless to pale yellow.
- Odour: Odourless
- Boiling Point/Range: >220 °C
- Flashpoint: 166 °C
- Autoignition Temperature: 460 °C
- pH: No information available
- Specific Gravity: 1.16 g/cm<sup>3</sup>
- Solubility in water: Reacts with water
- Viscosity: Dynamic at 25 °C, 2400 mPas

### 9.2 Other information

- No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

- No hazardous reactions known if used for its intended purpose

### 10.2 Chemical stability

- Considered stable under normal conditions

### 10.3 Possibility of hazardous reactions

Reacts with:

- 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.

Reacts with strong acids

Reacts with strong oxidizing agents

### 10.4 Conditions to avoid

extreme heat  
open flame  
moisture  
ignition sources

### 10.5 Incompatible materials

- Avoid contact with moisture
- Avoid contact with water
- Incompatible with acids and alkalis
- Incompatible with oxidizing substances

### 10.6 Hazardous decomposition products

On thermal decomposition (pyrolysis) releases:

Toxic gases.

Nitrogen oxides

Carbon oxides (CO + CO<sub>2</sub>)

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Harmful by inhalation.

Not harmful by skin contact.

Not harmful if swallowed.

28182-81-2 Hexamethylene diisocyanate oligomers, Isocyanurate

Oral LD<sub>0</sub> > 2500 mg/kg (rat) (OECD 423 (female))

Dermal LD<sub>0</sub> > 2000 mg/kg (rabbit) (OECD 402)

> 2000 mg/kg (rat) (OECD 402)

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## SECTION 11: Toxicological information (....)

Inhalative LC50/4h 0.390 mg/l (rat) (OECD 403 (female))

822-06-0 hexamethylene-di-isocyanate  
Oral LD50 746 mg/kg (rat) (OECD 401)  
Dermal LD50 > 7000 mg/kg (rat) (OECD 402)  
Inhalative LC50/4h 0.124 mg/l (rat) (OECD 403)

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## SECTION 12: Ecological information

### 12.1 Toxicity

The product does not have any known adverse effects on the 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)

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

### 12.2 Persistence and degradability

- Not readily biodegradable

### 12.3 Bioaccumulative potential

- No information available

### 12.4 Mobility in soil

- Reacts with water

### 12.5 Results of PBT and vPvB assessment

- No information available

### 12.6 Other adverse effects

- Reacts with water
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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Avoid release to the environment. Refer to special instructions/Safety data sheets
- Disposal should be in accordance with local, state or national legislation
- Dispose of contents/container to an authorised waste collection point.
- Do not empty into drains - dispose of this material and container in a safe way

**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:- H315: Causes skin irritation. H317: May cause an allergic skin reaction. 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.

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.

--- end of safety datasheet ---

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