Created: 08 May 2025

SAFETY DATA SHEET

This Safety Data Sheet is provided in compliance with the EC Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878

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

1.1 Product identifier

- Product Name: Griptop HB UVR - Hardener
- Product Part Number: C11/05/06/189H

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

- Use of the substance/mixture: Hardener component of aliphatic polyurethane sealer with semi-gloss finish

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Don Construction Products Ltd.
- Address of Supplier: Helions Bumpstead Road
  Haverhill CB9
  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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

2.2 Label elements

- Signal Word: Warning

Hazard statements

H332 - Harmful if inhaled.

H317 - May cause an allergic skin reaction.

SECTION 2: Hazards identification (....)

H335 - May cause respiratory irritation.

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.
P285 - In case of inadequate ventilation wear respiratory protection.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards

- Combustible liquid. Reacts on contact with water releasing carbon dioxide (CO2)
- Contains: Hexamethylene diisocyanate, oligomers

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hexamethylene diisocyanate, oligomers

CAS Number: -
EC Number: 931-274-8
Concentration: > 99%
Categories: Acute Tox. 4, Skin Sens. 1, STOT SE 3
Symbols: GHS07
H Statements: H317, H332, H335
REACH Registration Number: 01-2119485796-17-0002

hexamethylene-di-isocyanate.

CAS Number:	822-06-0
EC Number:	212-485-8
Concentration:	< 0.1%
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 %
REACH Registration Number: 01-2119457571-37-0001

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Move the person away from the contaminated area.

SECTION 4: First aid measures (....)

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

- No information available

4.3 Indication of any immediate medical attention and special treatment needed

- Treat symptomatically

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.

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.

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
- Contain spillage by any means possible
- Prevent further spilage 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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Ensure adequate ventilation
- Avoid contact with moisture
- Avoid contact with skin and eyes
- 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.
Store away from incompatible materials.
Keep only in the original container. Metallic drums. Storage tank with a dry nitrogen blanket.
Packaging materials: Steel. Aluminium. Unsuitable material for receptacle Copper and its alloys, Tin.

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

7.3 Specific end use(s)

- No information available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Hexamethylene diisocyanate oligomers, isocyanurates

Occupational exposure limits: IOELV STEL/WEL STEL: 1 mg/m³
DNEL/DMEL (workers): Acute - local effects, inhalation: 1 mg/m³
: Long-term - Local effects, inhalation: 0.5 mg/m³
PNEC : PNEC aqua (freshwater): 127 µg/l (Daphnia magna)
: PNEC aqua (marine water): 12.7 µg/l (Daphnia magna)
: PNEC aqua (intermittent, freshwater): 1270 µg/l (Daphnia magna)
: PNEC sediment (freshwater): 266.7 g/kg (equilibrium partitioning)
: PNEC soil: 53.2 g/kg (equilibrium partitioning)
: PNEC sewage treatment plant: 38.28 mg/l (OECD 209)

Hexamethylene-di-isocyanate

Occupational exposure limits: WEL TWA: 0.02 mg/m³
: WEL STEL: 0.07 mg/m³
DNEL/DMEL (workers): Acute - local effects, inhalation: 0.07 mg/m³
: Long-term - Local effects, inhalation: 0.035 mg/m³
PNEC : PNEC aqua (freshwater): > 77.4 µg/l (Scenedesmus subspicatus)
: PNEC aqua (marine water): > 7.74 µg/l (Scenedesmus subspicatus)
: PNEC aqua (intermittent, freshwater): > 774 µg/l (Scenedesmus subspicatus)
: PNEC sediment (freshwater): > 0.01334 mg/kg dwt (equilibrium partitioning)
: PNEC sediment (marine water): > 0.001334 mg/kg dwt (equilibrium partitioning)
: PNEC soil: >0.0026 mg/kg dwt (equilibrium partitioning)
: PNEC sewage treatment plant: 8.42 mg/l (OECD 209)

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
- Provide eyewash station. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

SECTION 9: Physical and chemical properties (....)

- Appearance: Liquid
- Colour: Colourless to slightly yellow.
- Odour: Odourless
- Boiling Point/Range: >220 °C (1.33 hPa)
- Melting point/Range: < -20°C
- Flashpoint: 228 °C
- Autoignition Temperature: 460 °C
- pH: No information available
- Specific Gravity: 1.16 g/cm³
- 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 CO2, 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

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

10.6 Hazardous decomposition products

On thermal decomposition (pyrolysis) releases:
Toxic gases.
Nitrogen oxides
Carbon oxides (CO + CO2)

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Harmful by inhalation.
Not harmful by skin contact.
Not harmful if swallowed.

Hexamethylene diisocyanate oligomers, Isocyanurate
Oral LD0 > 2500 mg/kg (rat) (OECD 423 (female))
Dermal LD0 > 2000 mg/kg (rabbit) (OECD 402)
> 2000 mg/kg (rat) (OECD 402)
Inhalative LC50/4h 0.390 mg/l (rat) (OECD 403 (female))
NOAEC (inhalation, rat, vapour): 3 mg/m3 (6h/ OECD TG 403)
NOAEC (inhalation, rat, vapour, 90days): 3.3 mg/l/6h/day (OECD 413)

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)
NOAEC, Chronic, Inhalation, rat: 0.164 ppm ((OECD 453 method))
LOAEC (inhalation, rat, vapour, 90 days): 0.01 ppm (OECD 413)
NOAEC, chronic, inhalation, rat: 0.005 ppm (2 years, (OECD 453 method))

SECTION 12: Ecological information

12.1 Toxicity

The product does not have any known adverse effects on the aquatic organisms tested.

Hexamethylene diisocyanate oligomers, Isocyanurate
LC50 fish 1: 8.9 mg/l (Brachydanio rerio)
EC50 Daphnia 1: 127 mg/l (48 h static / EU C.2)
EC50 other aquatic organisms 1: > 1000 mg/l (72h/ Scenedesmus subspicatus / DIN 38412)
ErC50 (algae): > 1000 mg/l (0-72 h static / Desmodesmus subspicatus / EU C.3)
EC50, ACTIVATED SLUDGE: 3828 mg/l (3hours, (OECD 209 method))

hexamethylene-di-isocyanate
LC50 fish 1: 22 mg/l (96 h-static/ Brachydanio rerio)
EC50 other aquatic organisms 1: 842 mg/l (3h-static / Bacterie/ OECD 209)
ErC50 (algae) : > 77.4 mg/l Desmodesmus subspicatus
LOEC (chronic): 12.6 mg/l (72h / Desmodesmus subspicatus / EU method C.3)
NOEC (chronic): 11.7 mg/l (72h / Desmodesmus subspicatus / EU method C.3)
EC0, daphnia: ≥ 89.1 mg/l (48h, EU C.2)

SECTION 12: Ecological information (....)

LC0, Fish: ≥ 82.8 mg/l (96h, EU C.1, (danio rerio))
EC50, Bacteria: 742 mg/l (3 hours, (OECD 209 method))

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

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

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 Regulations 1907/2006, 1272/2008, 2015/830 and 2020/878
- 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

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.

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