

SAFETY DATA SHEET **GRIPDECK WEARCOAT PLUS HARDENER**

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

1.1. Product identifier

GRIPDECK WEARCOAT PLUS HARDENER Product name

Internal identification GRIPDECKWEARCOATPLUSH/10

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

Identified uses Component of Car Park Decking Repair 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

01538 361799 Mon-Fri 8.30am - 5.00pm (excluding Bank Holidays) **Emergency telephone**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Acute Tox. 4 - H332 Skin Sens. 1 - H317 STOT SE 3 - H335 Health hazards

Environmental hazards Not Classified

Classification (67/548/EEC or Xn; R20. Xi; R37. R43

1999/45/EC)

Human health See Section 11 for additional information on health hazards.

Environmental The product will harden into a solid mass in contact with water and moisture. The resultant

material is not biodegradable.

2.2. Label elements

GRIPDECK WEARCOAT PLUS HARDENER

Pictogram



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary statements P260 Do not breathe gas, fume, vapours or spray.

P264 Wash contaminated skin thoroughly after handling.

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.

P313 Get medical advice/ attention.

Contains HEXAMETHYLENE DIISOCYANATE, OLIGOMERISATION PRODUCT, HEXAMETHYLENE-

DI-ISOCYANATE

Supplementary precautionary

statements

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

P284 [In case of inadequate ventilation] wear respiratory protection.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HEXAMETHYLENE DIISOCYANATE, OLIGOMERISATION

60-100%

PRODUCT

CAS number: 28182-81-2

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

Acute Tox. 4 - H332 R43.

Skin Sens. 1 - H317 STOT SE 3 - H335

HEXAMETHYLENE-DI-ISOCYANATE

<0.5%

CAS number: 822-06-0 EC number: 212-485-8

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

Acute Tox. 4 - H302 T;R23 R42/43 Xi;R36/37/38

Acute Tox. 1 - H330 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments Polyisocyanate pre-polymer

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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.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Do not induce vomiting. Get

medical attention.

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.

Harmful if inhaled. May cause respiratory irritation. Inhalation

Ingestion May cause discomfort if swallowed.

Skin contact May cause an allergic skin reaction.

Eye contact May cause temporary eye irritation.

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

Notes for the doctor Treat 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, if avoidable.

5.2. Special hazards arising from the substance or mixture

Oxides of carbon. Oxides of nitrogen. Hydrogen cyanide (HCN). Specific hazards

Hazardous combustion

be formed.

products

Oxides of carbon. Oxides of nitrogen. When heated, vapours/gases hazardous to health may

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

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. Use suitable respiratory protection if ventilation is

inadequate. Avoid contact with skin and eyes.

6.2. Environmental precautions

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Environmental precautions Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain spillage with sand, earth or other suitable non-combustible material. Containers with

collected spillage must be properly labelled with correct contents and hazard symbol. Do not

close container tightly. Risk of excess pressure build-up.

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 Avoid inhalation of vapours. Provide adequate ventilation.

Advice on general Do not eat, drink or smoke when using this product. Good personal hygiene procedures

occupational hygiene should be implemented.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in tightly-

closed, original container in a dry, 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

HEXAMETHYLENE-DI-ISOCYANATE

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m3(Sen) Short-term exposure limit (15-minute): WEL 0.07 mg/m3(Sen)

WEL = Workplace Exposure Limit

HEXAMETHYLENE DIISOCYANATE, OLIGOMERISATION PRODUCT (CAS: 28182-81-2)

DNEL Workers - Inhalation; Long term local effects: 0.5 mg/m³

Consumer - Inhalation; Short term systemic effects: 1 mg/m³

8.2. Exposure controls

Protective equipment









Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Personal protection Always check applicability with your supplier of protective equipment.

Eye/face protection If there is a risk of splashing, wear chemical resistant goggles or visor approved to BS EN166.

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Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible. 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

Use engineering controls to reduce air contamination to permissible exposure level. Provide

eyewash station. Remove contaminated clothing and wash the skin thoroughly with soap and

water after work. Do not eat, drink or smoke when using this product.

Respiratory protection In the case of hypersensitivity of the respiratory tract (eg asthmatics and those who suffer

from chronic bronchitis) it is inadviseable to work with this product. 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 Colourless to pale yellow liquid.

Odour Slight.

Odour threshold Not determined.

pH Not applicable.

Melting point Not applicable.

Initial boiling point and range >200°C @

Flash point 169.5°C

Evaporation rate Not applicable.

Evaporation factor Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not applicable.

Other flammability Not applicable.

Vapour pressure <0.000001 hPa @ 20°C

Vapour density Not determined.

Relative density 1.13 @ 20°C

Bulk density Not determined.

Solubility(ies) Insoluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature 449°C

Decomposition Temperature Not applicable.

Viscosity 2500 - 4500 mPa s @ 23°C

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Explosive properties Not applicable.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties Not known.

Comments Information given is applicable to the product as supplied.

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 determined.

Critical temperature Not determined.

Volatile organic compound Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The product will harden into a solid mass in contact with water and moisture.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

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 Water, moisture.

10.5. Incompatible materials

Materials to avoid Amines. Alcohols, glycols. Reacts with water forming carbon dioxide. Risk of bursting owing to

increased pressure in closed containers.

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.

Acute toxicity - dermal

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

Acute toxicity - inhalation

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

ATE inhalation (dusts/mists

mg/l)

1.04167708

Skin corrosion/irritation

Skin corrosion/irritation Irritating to skin.

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 Irritation of eyes is assumed.

Respiratory sensitisation

Respiratory sensitisation Sensitising.

Skin sensitisation

Skin sensitisation Sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro

No specific test data are available.

Genotoxicity - in vivo

No specific test data are available.

Carcinogenicity

Carcinogenicity No information available.

Target organ for carcinogenicity

No specific target organs known.

IARC carcinogenicity Not listed.

Reproductive toxicity

Reproductive toxicity - fertility No specific test data are available.

Reproductive toxicity -

development

Not considered to be toxic to the reproductive system.

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

General information The product contains small quantities of isocyanate. May cause respiratory allergy. May

cause respiratory system irritation.

Inhalation Harmful if inhaled.

Ingestion May cause discomfort if swallowed.

Skin contact May cause an allergic skin reaction.

Eye contact May cause temporary eye irritation.

Acute and chronic health

hazards

No specific health hazards known.

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Route of entry Inhalation Skin and/or eye contact

Target organs Respiratory system, lungs Skin

Medical symptoms Skin irritation. Gas or vapour in high concentrations may irritate the respiratory system.

> Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting. Prolonged or repeated exposure may cause the following adverse effects: Allergic

rash. General respiratory distress, unproductive cough. Difficulty in breathing.

Medical considerations Skin disorders and allergies. Chronic respiratory and obstructive airway diseases.

HEXAMETHYLENE DIISOCYANATE, OLIGOMERISATION PRODUCT

Acute toxicity - inhalation

ATE inhalation 1.5

(dusts/mists mg/l)

HEXAMETHYLENE-DI-ISOCYANATE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - inhalation

ATE inhalation 0.005

(dusts/mists mg/l)

SECTION 12: Ecological Information

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

12.1. Toxicity

Toxicity Not measured. Do not allow to enter waterways or drains

Not determined Acute toxicity - fish

Acute toxicity - aquatic

invertebrates

Not determined.

Acute toxicity - aquatic plants Not determined.

Acute toxicity -Not determined.

microorganisms

Not determined. Acute toxicity - terrestrial

Chronic toxicity - fish early life Not determined.

stage

Short term toxicity - embryo

Not determined.

Chronic toxicity - aquatic

and sac fry stages

Not determined.

invertebrates

12.2. Persistence and degradability

Persistence and degradability The product reacts with water to form a solid, insoluble reaction product which is not

biodegradable.

Phototransformation Not determined.

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Stability (hydrolysis) Not determined.

Biodegradation Not readily biodegradable.

Biological oxygen demand Not determined.

Chemical oxygen demand Not determined.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not applicable.

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 None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Residues and empty containers should be taken care of as hazardous waste according to

local and national provisions.

Disposal methods Should be disposed of via licensed waste operators to an approved incineration unit.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

Transport labels

No transport warning sign required.

14.4. Packing group

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

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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

No specific restrictions on use are known for this product.

Regulation 1907/2006)

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 01/03/2017

Revision 10

Supersedes date 25/05/2016
SDS status Approved.

Risk phrases in full R23 Toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin. R42/43 May cause sensitisation by inhalation and skin contact.

R43 May cause sensitisation by skin contact.

Hazard statements in full H302 Harmful if swallowed.

H302 Harmful if swallowed. H315 Causes skin irritation. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H319 Causes serious eye irritation.

H330 Fatal if inhaled. H330 Fatal if inhaled. H332 Harmful if inhaled.

H332 Harmful if inhaled.

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

H335 May cause respiratory irritation. H335 May cause respiratory irritation.

EUH208 Contains HEXAMETHYLENE-DI-ISOCYANATE. May produce an allergic reaction.

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.