

SAFETY DATA SHEET RonaDeck EcoPath UV - Part A

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

1.1. Product identifier

Product name RonaDeck EcoPath UV - Part A

Product number PC344

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

Identified uses [SU22] Professional uses: Public domain (administration, education, entertainment, services,

> craftsmen) [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) [ERC5] Industrial use resulting in inclusion into or onto a matrix. [AC4] Stone, plaster, cement, glass and ceramic articles. Adhesive. Sealant.

1.3. Details of the supplier of the safety data sheet

Supplier Ronacrete Limited

> Ronac House Flex Meadow Harlow **Fssex** CM19 5TD

www.ronacrete.co.uk Tel: 01279 638 700 Fax: 01279 638 701

email: sds@ronacrete.co.uk

1.4. Emergency telephone number

+44 (0) 1279 638700 **Emergency telephone**

National emergency telephone UK Consumers NHS 111. Medical professionals - www.toxbase.org

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Elicitation - EUH208

Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or R52/53

1999/45/EC)

2.2. Label elements

Hazard statements EUH208 Contains Dibutylin dilaurate. May produce an allergic reaction.

H412 Harmful to aquatic life with long lasting effects.

RonaDeck EcoPath UV - Part A

Precautionary statements P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with national regulations. P202 Do not handle until all safety precautions have been read and understood.

P270 Do not eat, drink or smoke when using this product.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

n-butyl-2-(1-ethylpentyl)-1,3-oxazolidine

1-5%

CAS number: 165101-57-5 EC number: 425-660-0

REACH registration number: 01-

0000017206-75-XXXX

Classification

Aquatic Chronic 2 - H411

Dibutylin dilaurate <1%

CAS number: 77-58-7 EC number: 201-039-8 REACH registration number: 01-

2119496068-27-XXXX

M factor (Chronic) = 1

Classification

Skin Corr. 1A - H314
Eye Dam. 1 - H318
Skin Sens. 1B - H317
Muta. 2 - H341
Repr. 1B - H360FD
STOT SE 1 - H370
STOT RE 1 - H372
Aquatic Chronic 1 - H410

2-methoxy-1-methylethyl acetate

<1%

CAS number: 108-65-6 EC number: 203-603-9

Classification

Flam. Liq. 3 - H226

n-butyl acetate <1%

CAS number: 123-86-4 EC number: 204-658-1

Classification

Flam. Liq. 3 - H226 STOT SE 3 - H336 STOT SE 3 - H336

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

SECTION 4: First aid measures

4.1. Description of first aid measures

RonaDeck EcoPath UV - Part A

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical attention if

symptoms are severe or persist.

Ingestion Do not induce vomiting. Get medical attention. Show this Safety Data Sheet to the medical

personnel.

Skin contact Wash skin thoroughly with soap and water. Get medical attention if symptoms are severe or

persist after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of

water. Continue to rinse for at least 15 minutes. Get medical attention.

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

Skin contact May cause sensitisation by skin contact.

Eve contact May irritate eyes. Prolonged contact may cause redness and/or tearing.

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 jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during

firefighting

No action shall be taken without appropriate training or involving any personal risk.

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 precautions Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Environmental precautions Dangerous for the environment if discharged into watercourses. Do not discharge into drains

or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Place waste in labelled, sealed

containers.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

RonaDeck EcoPath UV - Part A

Usage precautions Wear protective clothing as described in Section 8 of this safety data sheet.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool 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

Dibutylin dilaurate

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³ Short-term exposure limit (15-minute): WEL 0.2 mg/m³

2-methoxy-1-methylethyl acetate

Long-term exposure limit (8-hour TWA): WEL 274 mg/m³ Short-term exposure limit (15-minute): WEL 548 mg/m³

n-butyl acetate

Long-term exposure limit (8-hour TWA): WEL 724 mg/m³ Short-term exposure limit (15-minute): WEL 966 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment











Appropriate engineering

controls

Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Wear chemical splash goggles.

Hand protection It is recommended that chemical-resistant, impervious gloves are worn.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures When using do not eat, drink or smoke. Wash at the end of each work shift and before eating,

smoking and using the toilet. Take off contaminated clothing and wash it before reuse.

Respiratory protection Disposable filtering half mask respirators should comply with European Standard EN149 or

EN405.

Environmental exposure

controls

Keep container tightly sealed when not in use. Store in a demarcated bunded area to prevent

release to drains and/or watercourses.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Viscous liquid.

Colour Yellow.

Odour Mild.

Initial boiling point and range 260-300°C @ 101325 Pa

RonaDeck EcoPath UV - Part A

Relative density 0.9 - 1.0 @ 20°C

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

None known.

reactions

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition

Carbon dioxide (CO2). Carbon monoxide (CO).

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin contact The product contains a sensitising substance. May cause skin sensitisation or allergic

reactions in sensitive individuals. In the event of any sensitisation symptoms developing,

ensure further exposure is avoided.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

12.3. Bioaccumulative potential

Bioaccumulative potential Immiscible with water.

12.4. Mobility in soil

Mobility Not known.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

No data available.

assessment

12.6. Other adverse effects

Other adverse effects None known.

RonaDeck EcoPath UV - Part A

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

For quantities up to 5 kg of Part A, mix with an equal amount of Part B. Heat will evolve from

this

mixture, so pour onto aggregate to increase surface area and allow to harden. Do not leave

the

mixture in the container for longer than 5 minutes. Where there is an excess of Part A or Part

В

that cannot be reacted off, this must be disposed of by a licensed waste disposal company in accordance with national guidelines. All containers must be properly labelled and a Safety

data

sheet provided for the waste disposal company.

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

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Dangerous Preparations Directive 1999/45/EC.

Dangerous Substances Directive 67/548/EEC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

RonaDeck EcoPath UV - Part A

Guidance www.echa.europa.eu

www.hse.gov.uk

Workplace Exposure Limits EH40.

Supplier product information and safety data sheets.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Revision 1

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Hazard statements in full EUH208 Contains Dibutylin dilaurate. May produce an allergic reaction.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H341 Suspected of causing genetic defects.

H360FD May damage fertility. May damage the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful 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.



SAFETY DATA SHEET RonaDeck EcoPath UV - Part B

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

1.1. Product identifier

Product name RonaDeck EcoPath UV - Part B

Product number PC344

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

Identified uses [SU22] Professional uses: Public domain (administration, education, entertainment, services,

craftsmen) [ERC5] Industrial use resulting in inclusion into or onto a matrix [AC4] Stone, plaster, cement, glass and ceramic articles. [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) Adhesive.

Sealer.

1.3. Details of the supplier of the safety data sheet

Supplier Ronacrete Limited

Ronac House Flex Meadow Harlow Essex CM19 5TD

www.ronacrete.co.uk Tel: 01279 638 700 Fax: 01279 638 701

email: sds@ronacrete.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1279 638700

National emergency telephone UK Consumers NHS 111. Medical professionals - www.toxbase.org

number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H332 Elicitation - EUH208 Skin Sens. 1 - H317 STOT SE 3 - H335 STOT SE 3

- H335

Environmental hazards Not Classified

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

1999/45/EC)

2.2. Label elements

RonaDeck EcoPath UV - Part B

Pictogram



Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Precautionary statements P261 Avoid breathing vapour/spray.

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

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

P312 Call a POISON CENTER/doctor if you feel unwell. P321 Specific treatment (see medical advice on this label).

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

Contains Hexamethylene diisocyanate oligomers, Isocyanurate, hexamethylene-di-isocyanate

2.3. Other hazards

Reacts with water.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hexamethylene diisocyanate oligomers, Isocyanurate

60-100%

CAS number: 28182-81-2 REACH registration number: 01-

2119485796-17-XXXX

Classification

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

RonaDeck EcoPath UV - Part B

hexamethylene-di-isocyanate <1%

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

Classification

Acute Tox. 3 - H331 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335 STOT SE 3 - H335

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide

artificial respiration. Get medical attention immediately.

Ingestion Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention. Show this

Safety Data Sheet to the medical personnel.

Skin contact Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if

irritation persists after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of

water. Continue to rinse for at least 15 minutes. Get medical attention if symptoms are severe

or persist after washing.

clothing. Wear suitable gloves.

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

Inhalation A single exposure may cause the following adverse effects: General respiratory distress,

unproductive cough. May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin contact May cause sensitisation by skin contact.

Eye contact Symptoms following overexposure may include the following: Pain or irritation. Prolonged

contact may cause redness and/or tearing.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media

Water.

5.2. Special hazards arising from the substance or mixture

Specific hazards Toxic gases or vapours.

5.3. Advice for firefighters

RonaDeck EcoPath UV - Part B

Protective actions during

firefighting

Evacuate area. Do not allow water to contact any leaked material.

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 precautions Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours.

6.2. Environmental precautions

Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water. Control run-off water by containing and keeping it out of sewers and watercourses.

6.4. Reference to other sections

Reference to other sections

For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

For personal protection, see Section 8. Read label before use. Do not allow contact with

water. Avoid inhalation of vapours. Avoid contact with skin, eyes and clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in a demarcated bunded area to prevent release to drains and/or watercourses. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10).

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 diisocyanate oligomers, Isocyanurate

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

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment











Appropriate engineering

controls

Observe any occupational exposure limits for the product or ingredients. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

RonaDeck EcoPath UV - Part B

Hand protection Wear protective gloves made of the following material: Rubber (natural, latex).

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Provide eyewash station. Do not eat, drink or smoke when using this product. Wash at the

end of each work shift and before eating, smoking and using the toilet.

Respiratory protection Respirator selection must be based on exposure levels, the hazards of the product and the

safe working limits of the selected respirator.

Environmental exposure

controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Colourless to pale yellow liquid.

Odour No characteristic odour.

Melting point < -20°C

Initial boiling point and range >220°C @ 1.33 hPa

Flash point 137°C

Relative density 1.16 @ 25°C

Viscosity 2400 mPa s @ 25°C

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Reacts with water. Alcohols. Alkalis. Amines.

10.2. Chemical stability

Stability Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

Contact with water liberates toxic gas. Carbon dioxide (CO2).

reactions

10.4. Conditions to avoid

Conditions to avoid Contact with water liberates carbon dioxide causing an increase of pressure inside containers.

This may result in containers exploding.

10.5. Incompatible materials

Materials to avoid Never add water to this product.

10.6. Hazardous decomposition products

Hazardous decomposition

Carbon dioxide (CO2). Toxic gases or vapours.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

RonaDeck EcoPath UV - Part B

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 1,507.53768844

ATE inhalation (dusts/mists

1.50314157

mg/l)

Inhalation Harmful by inhalation. A single exposure may cause the following adverse effects: General

respiratory distress, unproductive cough. Upper respiratory irritation.

Ingestion The product is considered to be a low hazard under normal conditions of use. Get medical

attention if a large quantity has been ingested.

Skin contact The product contains a sensitising substance. In the event of any sensitisation symptoms

developing, ensure further exposure is avoided.

Eye contact May cause eye irritation.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity The product components are not classified as environmentally hazardous.

12.2. Persistence and degradability

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods For quantities up to 5 kg of Part A, mix with an equal amount of Part B. Heat will evolve from

this

mixture, so pour onto aggregate to increase surface area and allow to harden. Do not leave

the

mixture in the container for longer than 5 minutes. Where there is an excess of Part A or Part

В

that cannot be reacted off, this must be disposed of by a licensed waste disposal company in accordance with national guidelines. All containers must be properly labelled and a Safety

sheet provided for the waste disposal company.

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

RonaDeck EcoPath UV - Part B

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Dangerous Preparations Directive 1999/45/EC.

Dangerous Substances Directive 67/548/EEC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Guidance www.echa.europa.eu

www.hse.gov.uk

Supplier product information and safety data sheets.

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

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Revision 1

SDS number 4869

RonaDeck EcoPath UV - Part B

Risk phrases in full R20 Harmful by inhalation.

R23 Toxic by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R42/43 May cause sensitisation by inhalation and skin contact.

R43 May cause sensitisation by skin contact.

Hazard statements in full EUH208 Contains hexamethylene-di-isocyanate. May produce an allergic reaction.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H331 Toxic if inhaled. H332 Harmful if inhaled.

H335 May cause respiratory irritation.

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.