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

1.1 Product Identifier

Trade name: ANCHORBOND D2 PVA

Product Code:

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

Use of the substance/ mixture: For industrial use only

1.3 Details of the supplier of the safety data sheet

Company: Redwood UK Ltd
Address: 18 Arnside Road
Waterlooville
PO7 7UP
Email: sales@redwood-uk.com

1.4 Emergency telephone number

02392 233310 (0800-1600 Mon-Fri)

Section 2: Hazards Identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

2.2 Label Elements

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

Signal word
None

Hazard statements
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]

EU Specific Hazard Statements
EUH208 - Contains 1,2-benzisothiazol-3(2H)-one [BIT] & 2-methyl-2H-isothiazol-3-one [MIT] & reaction mass of
5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT]. May produce an allergic reaction
EUH210 - Safety data sheet available on request

2.3 Other Hazards

Harmful to aquatic life.

PBT & vPvB
This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no
substance considered to be very persistent nor very bioaccumulating (vPvB).

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical nature: Contains film- forming helping agents
Water-borne polymer emulsion.

Components

Chemical Name	CAS-No EC-No Index-No Registration number	Classification	Concentration
1,2-benzisothiazol-3(2H)-one [BIT]	220-120-9 2634-33-5 0.01 - <0.05 01-2120761540-60-XXXX	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Acute Tox. 2 (H330) Aquatic Chronic 2 (H411) (M Factor Acute =1)	Skin Sens. 1 :: C>=0.05%
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT]	611-341-5 55965-84-9 <0.0015	Acute Tox. 3 (H301) Acute Tox. 2 (H310) Acute Tox. 2 (H330) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) M Factor Acute = 100 M Factor Chronic = 100	Eye Dam. 1 :: C>=0.6% Irrit. 2 :: 0.06%<=C<0.6% Skin Corr. 1C :: C>=0.6% Skin Irrit. 2 :: 0.06%<=C<0.6% Skin Sens. 1 :: C>=0.0015 %

2-methyl-2H-isothiazol-3 -one [MIT]	220-239-6 2682-20-4 <0.0015 01-2120764690-50-xxxx	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) (M Factor Acute =10)	Skin Sens. 1 :: C>=0.0015

For explanation of abbreviations see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No.
1907/2006 (REACH), Article 59)

Section 4: First Aid Measures

4.1 Description of first aid measures

General Advice:	Show this safety data sheet to the doctor in attendance.
If Inhaled:	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
In case of eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.
If swallowed:	Clean mouth with water. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

5.2 Special hazards arising from the substance or mixture

No information available.

Hazardous combustion products	Carbon dioxide (CO2).

5.3 Advice for firefighters

Special protective equipment for firefighters:	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
For emergency responders	Use personal protection recommended in Section 8.

6.2 Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4 Reference to other sections

See section 8 for more information. See section 13 for more information.

Section 7 : Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:	Ensure adequate ventilation.
Hygiene measures	General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	Keep from freezing.

7.3 Specific End Use(s)

Specific use(s)	Adhesive.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
Other information	Observe technical data sheet.

Section 8: exposure controls/personal protection

8.1 Control parameters

Exposure Limits

Derived No Effect Level (DNEL)			
1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	6.81 mg/m³	
worker Long term Systemic health effects	Dermal	0.966 mg/kg bw/d	

Derived No Effect Level (DNEL)			
1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	1.2 mg/m³	
Consumer Long term Systemic health effects	Dermal	0.345 mg/kg bw/d	

Derived No Effect Level (DNEL)	
1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	4.03 µg/l
Marine water	0.403 µg/l
Sewage treatment plant	1.03 mg/l
Freshwater sediment	49.9 µg/l
Marine sediment	4.99 µg/l
Soil	3 mg/kg dry weight

8.2 Exposure Control

Engineering controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles). Avoid contact with eyes.
Skin and body protection	Wear protective gloves and protective clothing. Avoid contact with skin, eyes or clothing.
Respiratory protection	Wear protective gloves and protective clothing. Avoid contact with skin, eyes or clothing.
Environmental exposure controls	No information available.

Section 9: Physicsal and chemical properties

Appearance	liquid
Colour	white
Odour Threshold	No information available
Odour	No information available
pH	6 to 8
Melting point/range	ca. 0 °C
Boiling point/boiling range	100 °C
Flash point	No data available
Flammability (solid,gas)	Not applicable for liquids.
Vapour pressure	No data available
Relative vapour density	No data available
Relative density	No data available
Water solubility	No data available
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	10 - 13 Pa.s
Explosive properties	No data available
Oxidising properties	No data available

9.2 Other information

Solid content (%)	53
VOC Content (%)	
Density	1.20 g/cm³

Section 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical Stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3 Possibility of hazardous reactions

Hazardous reactions	None under normal processing.

10.4 Conditions to avoid

Conditions to avoid	Do not freeze.

10.5 Incompatible materials

Materials to avoid	None known based on information supplied.

10.6 Hazardous decomposition products

Hazardous decomposition products	Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

Section 11: Toxilogical information

11.1 Information on toxicological effects

Information on likely routes of exposure:

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Based on available data, the classification criteria are not met.
Skin contact	Based on available data, the classification criteria are not met.
Ingestion	Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics:

Symptoms	No information available.

Numerical measures of toxicity:

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (dermal)	5,933.50 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
1,2-benzisothiazol-3(2H)-on [BIT] 2634-33-5	670 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus)	
reaction mass of 5-chloro-2-methyl-2H-isothiazo l-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] 55965-84-9	53 mg/kg (Rattus)	87.12 mg/kg (Oryctolagus cuniculus)	
2-methyl-2H-isothiazol-3-one [MIT] 2682-20-4	285 mg/Kg (Rattus)	LD50 >242 mg/Kg (Rattus)	0.11 mg/L (Rattus) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

11.2.2. Other information No information available.

12.1 Toxicity

Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorga	Crustacea	M-Factor	M-Factor (long-term)
1,2-benzisothiazol-3(2H)-one [BIT] 2634-33-5	EC50 3Hr 13mg/l (activated sludge) (OECD 209)	LC50 (96hr) 2.15 mg/l Cyprinodon variegatus EPA		EC50(48hr) 2.94 mg/l (Daphnia Magna) OECD	1	1
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] 55965-84-9	EC50 (72h) =0.048 mg/L (Pseudokirchneriella subcapitata) (OECD 201)	EC50 (96h) = 0.22 mg/L (Oncorhynchus mykiss) (OECD 211)		EC50 (48h) =0.1 mg/L (Daphnia magna) (OECD 202)	100	100
2-methyl-2H-isothiazol-3-one [MIT] 2682-20-4	EC50 (72h) =0.048 mg/L (Pseudokirchneriella subcapitata) (OECD 201)	EC50 (96hr) 5.71 mg/l (Oncorhynchus mykiss) OECD		EC50 (48hr) 1.68 mg/l (Daphnia) (OECD 202)	10	1

12.2 Persistence and degradability

Derived No Effect Level (DNEL)			
1,2-benzisothiazol-3(2H)-one [BIT] (2634-33-5)			
Method	Exposure time	Value	Results
OECD Test No. 308: Aerobic and Anaerobic Transformation in Aquatic Sediment Systems		Half-life	1.28-2.1 days
OECD Test No. 309: Aerobic Mineralization in Surface Water - Simulation Biodegradation Test		biodegradation Half-life	biodegradation Half-life

12.3 Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
1,2-benzisothiazol-3(2H)-one [BIT] 2634-33-5	0.7	6.95
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] 55965-84-9		3.16
2-methyl-2H-isothiazol-3-one [MIT] 2682-20-4	-0.32	3.16

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
1,2-benzisothiazol-3(2H)-one [BIT] 2634-33-5	The substance is not PBT / vPvB
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) [C(M)IT/MIT] 55965-84-9	The substance is not PBT / vPvB
2-methyl-2H-isothiazol-3-one [MIT] 2682-20-4	The substance is not PBT / vPvB

12.6 Other Adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Contaminated packaging	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.
Other information	Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: Transport information

Note: Keep from freezing.

14.1 UN Number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Not applicable for product as supplied

Section 15:Regulatory information

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

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents
at work
Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.
Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACh) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:
This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction
This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV
This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Biocidal Products Regulation (EU) No 528/2012 (BPR)
Contains a biocide : Contains C(M)IT/MIT (3:1). May produce an allergic reaction

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

Persistent Organic Pollutants
Not applicable

15.2 Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

Section 16: Other information

Full text of H-Statements

H301 - Toxic if swallowed
H302 - Harmful if swallowed
H310 - Fatal in contact with skin
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
H330 - Fatal if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects

Full text of other abbreviations

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT	RE Specific target organ toxicity - Repeated exposure
STOT	SE Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regula-tion; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Cana-da); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - In-ternational Air Transport Association; IBC - International Code for the Construction and Equip-ment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentra-tion; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Mari-time Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisa-tion for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumu-lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substanc-es; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evalua-tion, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, infor-mation and belief at the date of its publication. The information given is designed only as a guid-ance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.