

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

# RonaFloor HB Vertical Grade Part A

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		Revision	
		Revision date	2012-05-
SECTION 1: Identification of the	ne substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	RonaFloor HB Vertical Grade Part A		
1.2. Relevant identified uses of th	e substance or mixture and uses advised against		
Product Use	[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;		
1.3. Details of the supplier of the s	safety data sheet		
Company	Ronacrete Limited		
Address	Ronac House		
	Flex Meadow		
	Harlow		
	Essex CM19 5TD		
	United Kingdom		
Web	www.ronacrete.co.uk		
Fax	+44 (0) 1279 638701		
Email	technical@ronacrete.co.uk		
1.4. Emergency telephone number	or and the second s		
Emergency telephone	+44 (0) 1279 638700		
number			
	Daytime		
SECTION 2: Hazards identifica	ation		
2.1. Classification of the substance			
2.1.1. Classification - 1999/45/EC	Xi; R36/38-43 N; R51/53 Symbols: Xi: Irritant. N: Dangerous for the environment.		
Main hazards	Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
2.2. Label elements			
	Viu Irritant Nu Dangaraus for the anvironment		
Symbols	Xi: Irritant. N: Dangerous for the environment.		
Dick phrases	D26/29 Instations to succe and skin		
Risk phrases	R36/38 - Irritating to eyes and skin. R43 - May cause sensitisation by skin contact.		
	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic		
	environment.		
Safety phrases	S24 - Avoid contact with skin.		
Caroly prilaboo	S24 - Avoid Contact with Skin.		



S29 - Do not empty into drains.

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2.2. Label elements

	S37 - Wear suitable gloves.	
	S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.	
2.3. Other hazards		
Other hazards	Not classified as flammable but will burn.	
SECTION 3: Composition/information on ingredients		

#### 3.2. Mixtures

# 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration	Conc.	Classification
				Number	(%w/w)	
4,4'-Isopropylidenediphenol	603-074-00-8	25068-38-6	500-033-5			Xi; R36/38 R43 N; R51/53
Epichlorhydrin reaction product						
(number average molecular weight						
=700)						
Bisphenol F Epichlorohydrin		28064-14-4				Xi; R36/38-43 N; R51/53
reaction product						
Aliphatic Glycidylether		68081-84-5				Xi; R36/38-43 N; R51/53

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Eye contact May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.		eyelids open. Seek medical attention.
	Skin contact	May cause irritation to skin. Remove contaminated clothing. Drench the affected skin with clean running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are
		burns or symptoms of poisoning.
	Ingestion	May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical
	-	attention.

# SECTION 5: Firefighting measures

# 5.1. Extinguishing media

Foam. Water spray. Cool fire exposed containers with waterspray. Do NOT use water jet.

#### 5.2. Special hazards arising from the substance or mixture

	Not classified as flammable but will burn. Carbon monoxide may evolve if incomplete combustion occurs.
5.3. Advice for firefighters	

Wear full protective clothing and self contained breathing apparatus.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

	Wear suitable protective equipment. Ensure adequate ventilation of the working area. Keep personnel away from spill.	
6.2. Environmental precautions		
	Contain spillage and do not allow to contaminate soil and drains or watercourses. If material enters drains it should be pumped out into an open vessel, emergency services should be called to assist in the operation.	
6.3. Methods and material for containment and cleaning up		
	Small spillages: absorb into dry earth or sand. Transfer to a closable, labelled container for	

#### disposal by an appropriate method. Put leaking containers into a larger container or over

container and secure lid. Label outer container identifing the substance.

Large spillages: Transfer to a labelled container for product recovery or appropriate disposal,

otherwise treat as a small spill.



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SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.		
7.2. Conditions for safe storage, including	any incompatibilities		
	Keep containers tightly closed. Store in a cool, dry area.		
SECTION 8: Exposure controls/persor	al protection		
8.2. Exposure controls			
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.		
8.2.2. Individual protection measures	Adopt best Manual Handling considerations when handling, carrying and dispensing.		
Eye / face protection	Eye protection. Eye wash bottle with water.		
Skin protection -	Butyl rubber gloves. Chemical resistant gloves (PVC). Neoprene gloves. Nitrile rubber gloves.		
Handprotection			
Skin protection - Other	Wear suitable protective clothing. Wear waterproof rubber footwear such as Wellington boots.		
Respiratory protection	Wear a mask.		
SECTION 9: Physical and chemical pro			
9.1. Information on basic physical and che	mical properties		
State	Liquid		
	Yellow		
Odour			
Boiling point			
Flash point Relative density			
SECTION 10: Stability and reactivity			
10.2. Chemical stability			
	Stable under normal conditions. Reacts with strong oxidising agents.		
10.3. Possibility of hazardous reactions			
	Polymerises exothermically with amines, mercaptans and Lewis Acids at ambient temperature.		
	Reacts exothermically with bases, ammonia, primary and secondary amines, alcohols and acids.		
10.5. Incompatible materials	r		
	Strong mineral acids. Caustic Soda can induce vigorous polymerisation at temperatures around 200C.		
10.6. Hazardous decomposition products			
	Hazardous decomposition products are not expected to form during normal storage.		
SECTION 11: Toxicological information	n		

# Germ cell mutagenicity

11.1. Information on toxicological effects

11.1.4. Toxicological Information



No mutagenic effects reported.

		Revision date	2012-05-02
11.1.4. Toxicological Information			
4,4'-Isopropylidenediphenol Epichlorhydrin reaction product (number average molecular weight =700)	Dermal Rat LD50: 2000 mg/kg	Dermal Rabbit LD50: 2000 mg/kg	
11.1.9. Delayed and immediate effects as	well as chronic effects from short and long-term exposure		
	May cause sensitisation by inhalation and skin contact.		
SECTION 12: Ecological information			
12.1. Toxicity			
4,4'-Isopropylidenediphenol Epichlorhydrin reaction product (number average molecular weight =700)	Fish LC50/96h: 2.4000 mg/l		
	May cause long-term adverse effects in the aquatic environment.		
12.2. Persistence and degradability			
	Not readily biodegradable.		
12.3. Bioaccumulative potential			
	Substance has a bioaccumulation potential.		
12.4. Mobility in soil			
	Sinks in water. If product enters soil, one or more constituents will be mobile and n contaminate groundwater.	nay	
SECTION 13: Disposal considerations			
General information	-		
	Recover or recycle if possible, incinerate. Contact a licensed waste disposal comp	any.	
Disposal methods			
	Transfer to a suitable container and arrange for collection by a specialised disposa	al company.	
Disposal of packaging			
	Drain container thoroughly. Rinse three times with suitable solvent. Treat rinsings a disposal. After draining, vent in a safe place away from sparks and fire. Where pra containers and packaging should be recycled by a licensed contractor. Arrange for disposal company.	ictical,	
SECTION 14: Transport information			
Hazard pictograms	-		
14.1. UN number			
	UN3082		
14.2. UN proper shipping name			
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Liquid Epoxy Aliphatic Glycidyl Ether)	/ Resin,	
14.3. Transport hazard class(es)			
ADR/RID	9		
Subsidiary risk			

IMDG

9



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14.3. Transport hazard class(es)		
Subsidiary risk -		
<b>IATA</b> 9		
Subsidiary risk -		
14.4. Packing group		
Packing group		
14.5. Environmental hazards		
Environmental hazards Yes		
Marine pollutant Yes		
ADR/RID		
Hazard ID 90		
Tunnel Category (E)		
IMDG		
EmS Code F-A S-F		
IATA		
Packing Instruction (Cargo) 964		
Maximum quantity 450 L		
Packing Instruction 964		
(Passenger)		
Maximum quantity 450 L		
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture		
Regulations REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AN	ID OF THE COUNCIL	
of 18 December 2006 concerning the Registration, Evaluation, Authorisation	and Restriction of	
Chemicals (REACH), establishing a European Chemicals Agency, amending	g Directive 1999/45/EC	
and repealing Council Regulation (EEC) No 793/93 and Commission Regula		
as well as Council Directive 76/769/EEC and Commission Directives 91/155	5/EEC, 93/67/EEC,	
93/105/EC and 2000/21/EC.		
SECTION 16: Other information		
Other information		
<b>Revision</b> This document differs from the previous version in the following areas:.		
8 - Respiratory protection.		
Text of risk phrases in   R36/38 - Irritating to eyes and skin.		
Section 3 R43 - May cause sensitisation by skin contact.		
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects i	n the aquatic	
Eurther information		
The information supplied in this Safety Data Sheet is designed only as guida		
storage and handling of the product. This information is correct to the best o	-	
belief at the date of publication however no guarantee is made to its accurac	-	
relates only to the specific material designated and may not be valid for such		





# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

# RonaFloor HB Vertical Grade Part B

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		Revision date	2012-05-
SECTION 1: Identification of t	ne substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	RonaFloor HB Vertical Grade Part B		
1.2. Relevant identified uses of th	e substance or mixture and uses advised against		
Product Use	[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;		
1.3. Details of the supplier of the	safety data sheet		
Company	Ronacrete Limited		
Address	Ronac House		
	Flex Meadow		
	Harlow		
	Essex CM19 5TD		
	United Kingdom		
Web	www.ronacrete.co.uk		
Fax	+44 (0) 1279 638701		
Email	technical@ronacrete.co.uk		
1.4. Emergency telephone number	r		
Emergency telephone	+44 (0) 1279 638700		
number			
	Daytime		
SECTION 2: Hazards identific	ation		
2.1. Classification of the substance			
2.1.1. Classification -	C; R34 Xn; R20/22-62-63 Xi; R43 N; R51/53		
1999/45/EC	Symbols: C: Corrosive. N: Dangerous for the environment.		
Main hazards	Harmful by inhalation and if swallowed. Causes burns. May cause sensitisation by skin contact.		
	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
	Possible risk of impaired fertility. Possible risk of harm to the unborn child.		
2.2. Label elements			
Symbols	C: Corrosive. N: Dangerous for the environment.		
Risk phrases	R20/22 - Harmful by inhalation and if swallowed.		
	R34 - Causes burns.		
	R43 - May cause sensitisation by skin contact.		
	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic		

environment.



# Revision

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2.2. Label elements	
	R62 - Possible risk of impaired fertility.
	R63 - Possible risk of harm to the unborn child.
Safety phrases	S24 - Avoid contact with skin.
	S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical
	advice.
	S28 - After contact with skin, wash immediately with plenty of clean water.
	S29 - Do not empty into drains.
	S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
	S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label
	where possible).
2.3. Other hazards	

Other hazards	Components of product may affect nervous system. May cause sensitisation by skin contact.
	Irritating to eyes and respiratory system.

# SECTION 3: Composition/information on ingredients

# 3.2. Mixtures

#### 67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	<b>REACH Registration</b>	Conc.	Classification
				Number	(%w/w)	
Benzyl alcohol	603-057-00-5	100-51-6	202-859-9			Xn; R20/22
Nonylphenol	601-053-00-8	25154-52-3	246-672-0			Repr. Cat. 3; R62-63 Xn;
						R22 C; R34 N; R50/53
Trimethylhexane-1,6-Diamine		25620-58-0				
m-Phenylenebis(methylamine)		1477-55-0	216-032-5			T; R23 C; R34 Xn; R21/22
						Xi; R43 R52/53
4-Tert-Butylphenol		98-54-4				

SECTION 4: First aid measures		
4.1. Description of first aid measures		
Inhalation	May cause lung irritation. Components of product may affect nervous system. Headache. Nausea. Dizziness. Confusion. Breathing difficulties. Overexposure can cause respiratory failure. May cause irritation to respiratory system.	
Eye contact	Vapor can cause glaucopsia.	
Skin contact	Components of product may affect nervous system. Headache. Nausea. Dizziness. Confusion. Breathing difficulties.	
Ingestion	Components of product may affect nervous system. Headache. Nausea. Vomiting. Abdominal Pain. Dizziness. Confusion. Breathing difficulties. Overexposure can cause respiratory failure.	
4.3. Indication of any immediate medical	attention and special treatment needed	
Inhalation	Remove the affected person from the source of contamination immediately. If conscious, ensure the casualty sits or lies down. If breathing is difficult give oxygen. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.	
Eye contact	Rinse immediately with plenty of water for 15 minutes. Transfer to hospital for specialist examination.	
Skin contact	Remove all contaminated clothes and footwear immediately unless stuck to skin. Rinse immediately with plenty of water for 15 minutes. Transfer to hospital if there are burns or symptoms of poisoning. Note to physicians: Application of corticosteroid cream has been effective in treating skin irritation.	
Ingestion	Drink 1 to 2 glasses of water. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. DO NOT INDUCE VOMITING. Transfer to hospital as soon as possible.	



# Revision

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	Alcohol resistant foam. Carbon dioxide (CO2). Dry Powder. Sand.
5.2. Special hazards arising from the subsi	
	Evacuate personnel to a safe area. Burning produces irritating, toxic and obnoxious fumes. Use of
	water may result in the formation of very toxic aqueous solutions. By fire, toxic gases (CO, CO2,
	NOx)may be formed. Ammonia. Do not allow runoff water to enter sewers or drains.
5.3. Advice for firefighters	
	Wear full protective clothing and self contained breathing apparatus. Retain expended liquids from
	fire fighting for later disposal.
SECTION 6: Accidental release mease	Jres
6.1. Personal precautions, protective equip	
	Wear self contained breathing apparatus and protective clothing. Wear suitable gloves and
	eye/face protection. Evacuate the area immediately. Ensure adequate ventilation of the working
	area.
6.2. Environmental precautions	
	Contain spillage and do not allow to contaminate soil and drains or watercourses.
6.3. Methods and material for containment	and cleaning up
	Transfer to suitable, labelled containers for disposal. Wear chemical protective clothing. Butyl
	rubber - IIR (). Self-contained breathing apparatus must be used in handling.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
	Provide eye wash station. Provide safety showers. Do not breathe vapours. Avoid contact with
	eyes and skin. Do not eat, drink or smoke in areas where this product is used or stored. Ensure
	adequate ventilation of the working area.
7.2. Conditions for safe storage, including	any incompatibilities
	Do not store with. Acids. Keep container tightly closed. Keep in a cool, dry, well ventilated area.
	Do NOT allow to freeze.
Suitable packaging	
	Do not store in reactive metal containers.
SECTION 8: Exposure controls/persor	al protection
8.2. Exposure controls	
8.2.1. Appropriate	Provide eye wash station. Provide safety showers. Ensure adequate ventilation of the working
engineering controls	area.
Skin protection -	Neoprene gloves. Polyvinyl chloride - PVC (). Butyl rubber - IIR (). Niltrile rubber - NBR ().
Handprotection	Impermeable gloves recommended. Chemical resistant disposable gloves are recommended as
	they promote regular changing.
Skin protection - Other	Wear suitable protective clothing. Dispose of contaminated leather articles. Wash at the end of
	each work shift and before eating, smoking or using the toilet.
Respiratory protection	Do not breathe gas/fumes/vapour/spray. Wear a mask.
SECTION 9: Physical and chemical pr	operties

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# Revision

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9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Ammoniacal
Boiling point	> 200 °C
Flash point	> 100 °C
Relative density	0.99 (Water = 1 @ 20 °C)

# SECTION 10: Stability and reactivity

#### 10.2. Chemical stability

	Stable under normal conditions.	
10.5. Incompatible materials		
	Reactive metals, materials reactive with hydroxyl compounds. CAUTION! N-Nitrosamines, many	
	of which are potent carcinogens, may be formed when the product comes into contact with nitrous	
	acid, nitrites or atmospheres with high nitrous oxide concentrations. Mineral and Organic acids,	
	oxidising agents. Product slowly corrodes copper, zinc, aluminium and galvanized surfaces.	
	Peroxides. Oxidising agents.	

10.6. Hazardous decomposition products

Ammonia. By fire, toxic gases (CO, CO2, NOx)may be formed. Hydrocarbons.

# SECTION 11: Toxicological information

#### 11.1.4. Toxicological Information

4-Tert-Butylphenol	Oral Rat LD50: 2951mg/kg	Dermal Rabbit LD50: 2288mg/kg			
Benzyl alcohol	Inhalation Rat LC50/4 h: 4.2 mg/l	Oral Rat LD50: 1230 mg/kg			
	Oral Mouse LD50: 1040 mg/kg	Dermal Rabbit LD50: 2000 mg/kg			
m-Phenylenebis(methylamine)	Inhalation Rat LC50/4 h: 2.4 mg/l	Oral Rat LD50: 930 mg/kg			
	Dermal Rabbit LD50: 2000 mg/kg				
Nonyiphenol	Oral Rat LD50: 1200 mg/kg				
RonaFloor HB Vertical Grade	Oral Rat LD50: 2951mg/kg				
Part B					
Trimethylhexane-1,6-Diamine	Oral Rat LD50: 910mg/kg				
SECTION 12: Ecological information	SECTION 12: Ecological information				

#### 12.1. Toxicity

Benzyl alcohol	Green algae EC50/96h: 640 mg/l	Fathead minnows LC50/96h: 460 mg/l
	Bluegili sunfish LC50/96h: 10 mg/l	
m-Phenylenebis(methylamine)	Daphnia EC50/48h: 16.0000 mg/l	Rainbow trout LC50/96h: 100 mg/l
RonaFloor HB Vertical Grade	Algae IC50/72h: 700 mg/l	Fish LC50/96h: 10 mg/l
Part B		

#### 12.2. Persistence and degradability

	No data available.		
12.3. Bioaccumulative potential			
	No data is available on this product.		
12.4. Mobility in soil	12.4. Mobility in soil		
	No data available.		

# SECTION 13: Disposal considerations

#### General information

Waste from residue/unused: Contact supplier if guidance is required.

# Disposal of packaging



Revision

		Revision date	2012-05-02
Disposal of packaging			
	Dispose of as special waste in compliance with. local and national regulations.		
SECTION 14: Transport information			
Hazard pictograms			
14.1. UN number			
	UN2735		
14.2. UN proper shipping name			
	AMINES, LIQUID, CORROSIVE N.O.S. (Benzene-1,3-dimethaneamine (MXDA))		
14.3. Transport hazard class(es)			
ADR/RID	8		
Subsidiary risk	-		
IMDG	8		
Subsidiary risk	] -		
IATA	8		
Subsidiary risk	-		
14.4. Packing group			
Packing group	Ш		
14.5. Environmental hazards	r		
Environmental hazards	Yes		
Marine pollutant	Yes		
ADR/RID	1		
Hazard ID	80		
Tunnel Category	(E)		
IMDG	I		
EmS Code	F-A S-B		
IATA	1		
Packing Instruction (Cargo)	855		
Maximum quantity	30 L		
Packing Instruction (Passenger)	851		
Maximum quantity	1		
SECTION 15: Regulatory information			
	ulations/legislation specific for the substance or mixture		
Regulations	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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.		
SECTION 16: Other information			
Other information			



# RonaFloor HB Vertical Grade Part B

Revision

Revision date 2012-05-02

Other information	
Revision	This document differs from the previous version in the following areas:.
	8 - Respiratory protection.
Text of risk phrases in	R20/22 - Harmful by inhalation and if swallowed.
Section 3	R21/22 - Harmful in contact with skin and if swallowed.
	R22 - Harmful if swallowed.
	R23 - Toxic by inhalation.
	R34 - Causes burns.
	R36/37/38 - Irritating to eyes, respiratory system and skin.
	R43 - May cause sensitisation by skin contact.
	R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
	R62 - Possible risk of impaired fertility.
	R63 - Possible risk of harm to the unborn child.
Further information	
	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.

