

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

RonaFloor HB200 Part A

Page 1/5

		Revision Revision date	2012-05-
SECTION 1: Identification of the	substance/mixture and of the company/undertaking		
1.1. Product identifier			
Product name	RonaFloor HB200 Part A		
1.2. Relevant identified uses of the	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 sa	fety 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			
Emergency telephone	+44 (0) 1279 638700		
number			
	Daytime		
SECTION 2: Hazards identificati	on		
2.1. Classification of the substance	or mixture		
2.1.1. Classification -	Xi; R36/38-43 N; R51/53		
1999/45/EC	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			
Symbols	Xi: Irritant. N: Dangerous for the environment.		
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.		



S29 - Do not empty into drains.

RonaFloor HB200 Part A

Revision date 2012-05-02

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.
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.



RonaFloor HB200 Part A

Revision

Revision date 2012-05-02

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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/personal protection

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection	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 properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Mild
Boiling point	150
Flash point	above 150
Relative density	1.12

SECTION 10: Stability and reactivity

10.2. Chemical stability					
	Stable under normal conditions. Reacts with strong oxidising agents.				
10.3. Possibility of hazardous reactions	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					
	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 informatio	SECTION 11: Toxicological information				
11.1. Information on toxicological effects					
Germ cell mutagenicity	No mutagenic effects reported.				
11.1.4. Toxicological Information					



Revision date 2012-05-02

		Revision date	2012-03-02
11.1.4. Toxicological Information			
4,4'-Isopropylidenediphenol	Dermal Rat LD50: 2000 mg/kg	Dermal Rabbit LD50: 2000 mg/kg	
Epichlorhydrin reaction product			
(number average molecular weight =700)			
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	Fish LC50/96h: 2.4000 mg/l		
Epichlorhydrin reaction product (number average molecular			
weight =700)			
	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 may		
	contaminate groundwater.		
SECTION 13: Disposal considerations			
General information			
	Recover or recycle if possible, incinerate. Contact a licensed waste disposal company.		
Disposal methods			
	Transfer to a suitable container and arrange for collection by a specialised disposal con	npany.	
Disposal of packaging			
	Drain container thoroughly. Rinse three times with suitable solvent. Treat rinsings as for	r product	
	disposal. After draining, vent in a safe place away from sparks and fire. Where practical	l,	
	containers and packaging should be recycled by a licensed contractor. Arrange for colle	ection by	
	disposal company.		
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 Res Aliphatic Glycidyl Ether)	in,	
14.3. Transport hazard class(es)	•		
ADR/RID	9		
Subsidiary risk] -		
IMDG	9		



Revision date 2012-05-02

14.3. Transport hazard class(es) Subsidiary risk - IATA 9 Subsidiary risk - 14.4. Packing group - Packing group III 14.5. Environmental hazards Yes	
IATA 9 Subsidiary risk - 14.4. Packing group III Packing group III 14.5. Environmental hazards	
Subsidiary risk - 14.4. Packing group III Packing group III 14.5. Environmental hazards	
14.4. Packing group Packing group 14.5. Environmental hazards	
Packing group III 14.5. Environmental hazards	
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 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	
Revision 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 in the aquatic	
Example a servironment.	
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.	





SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

RonaFloor HB200 Part B

Page 1/6

		Revision			
		Revision date	2012-05-0		
SECTION 1: Identification of t	he substance/mixture and of the company/undertaking				
1.1. Product identifier					
Product name	RonaFloor HB200 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	I.4. Emergency telephone number				
Emergency telephone +44 (0) 1279 638700					
number					
	Daytime				
SECTION 2: Hererde identifie					
SECTION 2: Hazards identific					
2.1. Classification of the substand	e or mixture				
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	2.2. Label elements				
Symbols	C: Corrosive. N: Dangerous for the environment.				
	28 <u>28</u> 7 7				
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.				



Page 2/6

1

RonaFloor HB200 Part B

Revision

Revision date 2012-05-02

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.	REACH Registration	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
Trimethulbeuene 4.6 Diamine		25620-58-0				-, - ,
Trimethylhexane-1,6-Diamine		20020-00-0				
m-Phenylenebis(methylamine)		1477-55-0	216-032-5			T; R23 C; R34 Xn; R21/22
The heryleneois(methylamine)		1477-55-0	210-032-3			
						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. state				
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

Revision date 2012-05-02

SECTION 5: Firefighting measures 5.1. Extinguishing media Alcohol resistant foam. Carbon dioxide (CO2). Dry Powder. Sand. 5.2. Special hazards arising from the substance or mixture 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 measures 6.1. Personal precautions, protective equipment and emergency procedures 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 eve 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/personal 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 properties

9.1. Information on basic physical and chemical properties



Revision date 2012-05-02

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Ammoniacal
Boiling point	> 200 °C
Flash point	
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 HB200 Part B	Oral Rat LD50: 2951mg/kg	
Trimethylhexane-1,6-Diamine	Oral Rat LD50: 910mg/kg	

SECTION 12: Ecological information

12.1. Toxicity			
	Benzyl alcohol	Green algae EC50/96h: 640 mg/l	Fathead minnows LC50/96h: 460 mg/l
		Bluegill sunfish LC50/96h: 10 mg/l	
	m-Phenylenebis(methylamine)	Daphnia EC50/48h: 16.0000 mg/l	Rainbow trout LC50/96h: 100 mg/l
	RonaFloor HB200 Part B	Algae IC50/72h: 700 mg/l	Fish LC50/96h: 10 mg/l

12.2. Persistence and degradability

	No data available.		
12.3. Bioaccumulative potential			
	No data is available on this product.		
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	Waste from residue/unused: Contact supplier if guidance is required.		



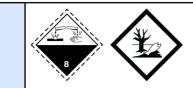
RonaFloor HB200 Part B

Revision

Revision date 2012-05-02

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	11			
14.5. Environmental hazards	14.5. Environmental hazards			
Environmental hazards	Yes			
Marine pollutant	Yes			
ADR/RID				
Hazard ID	80			
Tunnel Category	(E)			
IMDG				
EmS Code	F-A S-B			
IATA				
Packing Instruction (Cargo)	855			
Maximum quantity	30 L			
Packing Instruction	851			
(Passenger)				
Maximum quantity	1L			
SECTION 15: Regulatory information				
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				

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

This document differs from the previous version in the following areas:.

8 - Respiratory protection.



RonaFloor HB200 Part B

Revision

Revision date 2012-05-02

Other information	
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.

