

# SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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# **Deckmaster Membrane Hardener**

Revision 0
Revision date 2015-05-21

SECTION 1: Ide	entification of the substance/mi	ixture and of the comp	any/undertaking

#### 1.1. Product identifier

Product name	Deckmaster Membrane Hardener
FIOUUCI Haille	Deckinastei Menibrane Hardener

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

# **Description** Restricted to professional users.

Component of a Two Pack Concrete Protection System.

#### 1.3. Details of the supplier of the safety data sheet

Company	Resdev Ltd
A -1 -1	D 61 - 11 - 1 - 1 - 1

Address Pumaflor House

Ainleys Industrial Estate

Elland HX5 9JP

 Web
 www.resdev.co.uk

 Telephone
 +44 (0)1422 379131

 Fax
 +44 (0)1422 370943

 Email
 info@resdev.co.uk

 Email address of the
 info@resdev.co.uk

1.4. Emergency telephone number

Emergency telephone

competent person

number

+44 (0)1422 379131

9.00am to 5.00pm Mon - Fri

### SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

2.1	1.1	. Cla	ssificat	ion -

1999/45/EC

Xn; R20-40-42/43-48/20 Xi; R36/37/38

Symbols: Xn: Harmful.

Main hazards

Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. May cause sensitisation by inhalation. Harmful: danger of serious damage to health by prolonged exposure

through inhalation.

2.1.2. Classification - EC

1272/2008

Skin Irrit. 2: H315; Skin Sens. 1: H317; Eye Irrit. 2: H319; Acute Tox. 4: H332; Resp. Sens. 1: H334; STOT SE 3: H335; Carc. 2: H351; STOT RE 2: H373;

# 2.2. Label elements

### Hazard pictograms





Signal Word

**Hazard Statement** 

Janger

Skin Irrit. 2: H315 - Causes skin irritation.

ChemSoft EH&S

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### 2.2. Label elements Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. Acute Tox. 4: H332 - Harmful if inhaled. Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. STOT SE 3: H335 - May cause respiratory irritation. Carc. 2: H351 - Suspected of causing cancer. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . **Precautionary Statement:** P201 - Obtain special instructions before use. Prevention P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. 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. P284 - [In case of inadequate ventilation] wear respiratory protection. P302+P352 - IF ON SKIN: Wash with plenty of water/ . **Precautionary Statement:** Response P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P312 - Call a POISON CENTER/doctor/ /if you feel unwell. P314 - Get medical advice/attention if you feel unwell. P321 - Specific treatment (see on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor/. **Precautionary Statement:** P403+P233 - Store in a well-ventilated place. Keep container tightly closed. Storage P405 - Store locked up. **Precautionary Statement:** P501 - Dispose of contents/container to

#### 2.3. Other hazards

Disposal

Other hazards	According to Regulation (EC) No 1272/2008 (CLP)
	No specific dangers known, if the regulations/notes for storage and handling are considered.

# 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	M-factor.
				Number	(%w/w)		
Methylenediphenyl diisocyanate	615-005-00-9	26447-40-5	247-714-0		70 - 80%	Carc. Cat. 3; R40 Xn; R20-48/20 Xi; R36/37/38 R42/43	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9			10 - 20%		



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#### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
Methylenediphenyl diisocyanate	615-005-00-9	26447-40-5	247-714-0			Carc. 2: H351; Acute Tox. 4: H332; STOT RE 2: H373; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317;	
4,4'-Diphenylmethane-diisocyanate	615-005-00-9	9016-87-9			10 - 20%		

#### SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation	Keep patient calm, remove to fresh air, seek medical attention.			
Eye contact	Immediately wash affected eyes for at least 15 minutes under running water with eyelids help open, consult an eye specialist.			
Skin contact	After contact with skin, wash immediately with plenty of water and soap.			
Ingestion	Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical			
	attention.			
4.2. Most important symptoms a	and effects, both acute and delayed			
Eye contact	Irritating to eyes.			
Skin contact	Irritating to skin.			
4.3. Indication of any immediate medical attention and special treatment needed				
	Treatment:- Treat according to symptoms (decontamination, vital functions), no known specific			

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Dry powder, carbon dioxide, alcohol-resistant foam, water spray.

antidote, administer corticosteroid dose aerosol to prevent pulmonary odema.

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

Carbon dioxide, carbon monoxide, hydrogen cyanide, hydrocyanic acid, nitorgen oxides, isocyanate.

The substance/groups of substances mentioned can be released in case of fire.

### 5.3. Advice for firefighters

Special protective equipment.

Wear self-contained breathing apparatus and chemical-protective clothing.

#### **Further information**

Keep containers cool by spraying with water if exposed to fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

#### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Use breathing aparatus if exposed to vapours/dust/aerosol.

### 6.2. Environmental precautions

Do not empty into drains. Do not discharge into the subsoil/soil.

# 6.3. Methods and material for containment and cleaning up

For large amounts:- Pump off product.

For residues;- Pick up with absorbent material (e.g sand, sawdust, general purpose binder).

Dispose of absorbed material in accordance with regulations.

Neutralize with a solution of 5-10% Sodium carbonate, 0.2-2 % detergents and 90-95 % water.



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#### 6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Provide suitable exhaust ventilation at the processing machines. Ensure thorough ventilation of stores and work areas. Avoid aerosol formation. When handling heated product, vapours of the product should be ventilated and respiratory protection used. Wear respiratory protection when spraying. Danger of bursting when seal gastight. Protect against moisture. Products freshly manufactured from isocyanates can contain incompletely reacted isocyanates and other dangerous substances. Clean up comtamination as soon as they occur. Provide basic employee training to prevent/minimize exposures.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from water. Segregate from foods and animal feeds. Segregate from acids and bases.

Suitable materials for containers; carbon steel (iron), High density polyethylene (HDPE), Low density polyethylene (LDPE), tin (tinplate), Stainless steel 1 4301 (V2).

Unsuitable materials for containers;- paper, board.

Further information on storage containers; Keep container tightly closed in cool, well-ventilated place. Protect against moisture. Formation of CO2 and build up of pressure possible. Danger of bursting when sealed gastight. Information concerning the compliance to the Packaging (Essential Requirements) Regulations 1998 and their amendments may be obtained from the manufacturer.

#### 7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this secrtion 7 is to be observed.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Are listed on the following items according to where it is going to be used.

#### 8.2. Exposure controls









Eye / face protection

Skin protection - Handprotection

Skin protection - Other

safety glasses with side-shields.

Chemical resistant gloves.

Wear suitable protective clothing.

# SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties



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# 9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellowish
Odour	Earthy, musty
pH	Not applicable.
Melting point	No data available
Freezing Point	No data available
Initial boiling point	> 200
Flash point	200
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available
Solubility	No data available

## 9.2. Other information

Conductivity	No data available
-	No data available
	No data available
Benzene Content	
	Not applicable.
VOC (Volatile organic	
compounds)	

SECTION 10: Stability and re	eactivity
10.1. Reactivity	
	No hazardous reactions if stored and handled as prescribed/indicated.
10.2. Chemical stability	
	This product is stable if stored and handled as prescribed/indicated.
10.3. Possibility of hazardous re	eactions
	Reacts with water, with formation of carbon dioxide. Risk of bursting. Reacts with substances which contain active hydrogen.
10.4. Conditions to avoid	
	Temperature < 15o C.
10.5. Incompatible materials	
	Acids, alcohols, amines, water, Alkalines.
10.6. Hazardous decomposition	products
	No hazardous decomposition products if stored and handled as prescribed/indicated.
SECTION 11: Toxicological i	information

# SECTION 11: Toxicological information

11.1. Information on toxic	cological effects
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Acute toxicity	No data is available on this product.
Skin corrosion/irritation	Sensitization.
Serious eye damage/irritation	Causes serious eye irritation.



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11.1. Information on toxicolog	gical effects
Respiratory or skin sensitisation	May cause sensitisation by inhalation.
Germ cell mutagenicity	No data is available on this product.
Carcinogenicity	No data is available on this product.
Reproductive toxicity	No data is available on this product.
1.1.4. Toxicological Informa	ition
	No data available
SECTION 12: Ecological i	nformation
2.1. Toxicity	
	No data available
2.2. Persistence and degrad	dability
	No data is available on this product.
2.3. Bioaccumulative potent	tial
	No data is socilable as this product
Partition coefficient	No data is available on this product.
artitori coemolerit	Deckmaster Membrane Hardener No data available
	Destinate Manipular Ne data dyanapis
2.4. Mobility in soil	
	No data is available on this product.
2.5. Results of PBT and vP	vB assessment
	No data is available on this product.
2.6. Other adverse effects	
	No data is available on this product.
SECTION 13: Disposal co	nsiderations
3.1. Waste treatment metho	ods
	Completely empty the packaging and process it according to local legislation.
SECTION 14: Transport in	nformation
4.6. Special precautions for	user
	The product is not classified as dangerous for carriage.
4.7. Transport in bulk accor	rding to Annex II of MARPOL 73/78 and the IBC Code
	The product is not classified as dangerous for carriage.
ADR/RID	
	The product is not classified as dangerous for carriage.
MDG	
	The product is not classified as dangerous for carriage.
ATA	
	The product is not classified as dangerous for carriage.
SECTION 15: Regulatory	information
5.1. Safety, health and envi	ronmental regulations/legislation specific for the substance or mixture
	"COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1000/45/FC and repeding Council Regulation (EEC) No 703/03 and

amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and

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

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".

"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".

#### 15.2. Chemical safety assessment

For advice on essential measures see sections 7 and 8 of this safety data sheet.

## SECTION 16: Other information

#### Other information

Text of risk phrases in	R20 - Harmful by inhalation.
Section 3	R36/37/38 - Irritating to eyes, respiratory system and skin.
	R40 - Limited evidence of a carcinogenic effect.
	R42/43 - May cause sensitisation by inhalation and skin contact.
	R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Text of Hazard Statements in	Skin Irrit. 2: H315 - Causes skin irritation.
Section 3	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Eye Irrit. 2: H319 - Causes serious eye irritation.
	Acute Tox. 4: H332 - Harmful if inhaled.
	Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	STOT SE 3: H335 - May cause respiratory irritation.
	Carc. 2: H351 - Suspected of causing cancer .
	STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .

### **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.

