

**Safety Data Sheet Cover-Sheet** – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the safety data sheet attached.

Product Name:	EpoxyPlus EX1 Hardener Component
Accompanying SDS:	Helifix (New Zealand) Ltd. Revision Date 22/10/2012 – Revision 1
Supplier Details:	Helifix (New Zealand) Ltd Unit B, 19 Nuttall Drive Hillsborough, Christchurch 8022 Ph. 03 376 5205 <u>info@helifix.co.nz</u>
Emergency Contacts:	Poisons & Hazardous Chemicals Information Centre – 0800 POISON / 0800 764 766 (24-hr) Phone 111 for Fire, Ambulance or Police
<u>Hazard Identification</u> : HSNO Classification: HSNO Group Standard: HSNO Approval Number:	6.1D, 6.5B, 8.2C, 8.3A, 9.3C Construction Products (Corrosive 8.2C) Group Standard HSR002542
Hazard Statements:	DANGER May be harmful if swallowed May cause an allergic skin reaction Causes severe skin burns and eye damage Harmful to terrestrial vertebrates
Date Prepared:	This coversheet prepared 5 February 2013

This SDS coversheet has been produced by Chemsafety Ltd for Helifix (New Zealand) Ltd and has been prepared in accordance NZ EPA advice on making overseas safety datasheets compliant with the HSNO Act.

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. Users must satisfy themselves that the product is entirely suitable for their purpose.

The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.



# SAFETY DATA SHEET EpoxyPlus EX1 Hardener Component

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name EpoxyPlus EX1 Hardener Component

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

Identified uses

Two component epoxy based adhesive. Hardener.

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

Supplier

Helifix (New Zealand) Limited Unit B 19 Nuttall Drive Hillsborough Christchurch 8022 NEW ZEALAND Tel: 64 (0)3 376 5205 Fax: 64 (0)3 376 5206 Email: info@helifix.co.nz

# 1.4. Emergency telephone number

64 (0)3 376 5205

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### Classification (EC 1272/2008)

Classification (1999/45/EEC)

Physical and Chemical Hazards	Not classified.
Human health	Skin Corr. 1B - H314;Skin Sens. 1 - H317
Environment	Not classified.
C;R34. R43.	

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

#### 2.2. Label elements

Contains

#### 2-PIPERAZIN-1-YLETHYLAMINE

1,3-CYCLOHEXANEBIS(METHYLAMINE)

Label In Accordance With (EC) No. 1272/2008



Signal Word	Danger	
Hazard Statements		
	H314	Causes severe skin burns and eye damage.
	H317	May cause an allergic skin reaction.
Precautionary Statements		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplementary Precautionary State	ements	
	P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
2.3. Other hazards		

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

STYRENATED PHENOL			10-20%
CAS-No.: 61788-44-1	EC No.: 262-975-0		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		Classification (67/548/EEC) Xi;R36/38.	
2-PIPERAZIN-1-YLETHYLAMINE			5-10%
CAS-No.: 140-31-8	EC No.: 205-411-0		
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412		Classification (67/548/EEC) C;R34 Xn;R21/22 R43 R52/53	
1,3-CYCLOHEXANEBIS(METHYLAMIN	Ε)		5-10%
CAS-No.: 2579-20-6	EC No.: 219-941-5		
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Corr. 1A - H314		Classification (67/548/EEC) Xn;R20/21/22. C;R35.	
SALICYLIC ACID			1-5%
CAS-No.: 69-72-7	EC No.: 200-712-3		
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335		Classification (67/548/EEC) Xn;R22. Xi;R37/38,R41.	

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 victim immediately from source of exposure. Get medical attention if any discomfort continues.

### Ingestion

DO NOT induce vomiting. Get medical attention immediately.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

# EpoxyPlus EX1 Hardener Component

## Inhalation.

Irritation of nose, throat and airway.

### Ingestion

May cause stomach pain or vomiting

### Skin contact

Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.

### Eye contact

May cause blurred vision and serious eye damage.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing media

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

DO NOT use water if avoidable.

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

#### Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

### Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

#### Specific hazards

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

#### No specific fire fighting procedure given.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

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

# 6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Contain spillages with sand, earth or any suitable adsorbent material. Avoid discharge into water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13.

#### 6.4. Reference to other sections

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

### SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes.

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

#### Keep in original container.

#### 7.3. 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

#### 8.2. Exposure controls

# **EpoxyPlus EX1 Hardener Component**

Protective equipment







#### Process conditions

Use engineering controls to reduce air contamination to permissible exposure level.

#### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

#### Respiratory equipment

Wear suitable respiratory protection.

#### Hand protection

Wear protective gloves.

### Eye protection

Wear approved safety goggles.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance Liquid Colour Dark brown. to Black. Odour Characteristic. Solubility Not determined. Initial boiling point and boiling range Not determined. Melting point (°C) Not determined. 1.8 Relative density Vapour density (air=1) Not determined. Vapour pressure Not determined. Evaporation rate Not determined. pH-Value, Conc. Solution Not applicable. Viscosity >60s ISO2431 Solubility Value (G/100G H2O@20°C) Not applicable. Decomposition temperature (°C) Not determined. Odour Threshold, Lower Not determined. Odour Threshold, Upper Not determined. Flash point Not determined. Auto Ignition Temperature (°C) Not determined Flammability Limit - Lower(%) Not determined Flammability Limit - Upper(%) Not determined **Partition Coefficient** (N-Octanol/Water) Not determined. Explosive properties No information available. 9.2. Other information

### SECTION 10: STABILITY AND REACTIVITY

#### 10.1. Reactivity

Acids. Alkalis.

# 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

# 10.3. Possibility of hazardous reactions

Not relevant Hazardous Polymerisation Not relevant 10.4. Conditions to avoid

Avoid contact with acids and alkalis. **10.5. Incompatible materials** 

#### Materials To Avoid

Epoxides.

### 10.6. Hazardous decomposition products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

# SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information on ingredients.

# 2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8) STYRENATED PHENOL (CAS: 61788-44-1) SALICYLIC ACID (CAS: 69-72-7) 1.3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

#### Ecological information on ingredients.

### 2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)

Acute Toxicity - Fish LC50 96 hours 2190 mg/l Pimephales promelas (Fat-head Minnow) Acute Toxicity - Aquatic Invertebrates EC50 48 hours 58 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours > 1000 mg/l Selenastrum capricornutum

SALICYLIC ACID (CAS: 69-72-7)

Acute Toxicity - Fish LC50 48 hours 90 mg/l Leuciscus idus (Golden orfe) Acute Toxicity - Microorganisms EC50 3 hours > 3200 mg/l Activated sludge

1,3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)

### Acute Toxicity - Fish

LC50 96 hours > 100 mg/l Leuciscus idus (Golden orfe) Acute Toxicity - Aquatic Invertebrates EC50 48 hours 29 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 96 hours > 100 mg/l Scenedesmus subspicatus Acute Toxicity - Terrestrial EC50 14 days > 1000 mg/kg Eisenia Fetida (Earthworm) 12.2. Persistence and degradability

#### Degradability

There are no data on the degradability of this product.

# EpoxyPlus EX1 Hardener Component

### 12.3. Bioaccumulative potential

## **Bioaccumulative potential**

No data available on bioaccumulation. **Partition coefficient** Not determined.

# 12.4. Mobility in soil

### Mobility:

Mobile. The product is partly soluble in water. May spread in the aquatic environment.

### 12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

# SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Contact specialist disposal companies.

### SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735

# 14.2. UN proper shipping name

**Proper Shipping Name** 

AMINES, LIQUID, CORROSIVE, N.O.S.

### 14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8
Transport Labels	
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### 14.4. Packing group

ADR/RID/ADN Packing group	Ш
IMDG Packing group	Ш
ICAO Packing group	Ш

# 14.5. Environmental hazards

# 14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2X

Tunnel Restriction Code

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

80

(E)

# SECTION 15: REGULATORY INFORMATION

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

#### Guidance Notes

Workplace Exposure Limits EH40.

# EU Legislation

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. 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 (EC) 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, including amendments.

#### 15.2. Chemical Safety Assessment

**Poisons Information Centre** 

No chemical safety assessment has been carried out.

### SECTION 16: OTHER INFORMATION

Revision Comments			
NOTE: Lines within the	e margin indicate significant chang	es from the previous revision.	
Revision Date	22/10/2012		
Revision	1	1	
Risk Phrases In Full			
R34	Causes burns.		
R35	Causes severe burns.		
R20/21/22	Harmful by inhalation, in c	contact with skin and if swallowed.	
R22	Harmful if swallowed.		
R21/22	Harmful in contact with sk	in and if swallowed.	
R52/53	Harmful to aquatic organis	sms, may cause long-term adverse effects in the aquatic environment.	
R36/38	Irritating to eyes and skin.		
R37/38	Irritating to respiratory sys	tem and skin.	
R43	May cause sensitisation b	May cause sensitisation by skin contact.	
R41	Risk of serious damage to	Risk of serious damage to eyes.	
Hazard Statements In I	Full		
H302	Harmful if swallowed.	Harmful if swallowed.	
H312	Harmful in contact with ski	Harmful in contact with skin.	
H314	Causes severe skin burns	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	Causes skin irritation.	
H317	May cause an allergic skir	May cause an allergic skin reaction.	
H318	Causes serious eye dama	Causes serious eye damage.	
H319	Causes serious eye irritati	Causes serious eye irritation.	
H332	Harmful if inhaled.	Harmful if inhaled.	
H335	May cause respiratory irrit	May cause respiratory irritation.	
H412	Harmful to aquatic life with	Harmful to aquatic life with long lasting effects.	
Emergency Contacts			
Helifix (New Zealand) L		64 (0)3 376 5205	
Helifix (New Zealand) Limited - Emergency Number 64 (0)3 376 5205			
Police and Fire Brigade 111			

0800 764 766

# Disclaimer

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 Cover-Sheet** – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the safety data sheet attached.

Product Name:	EpoxyPlus EX1 Resin Component
Accompanying SDS:	Helifix (New Zealand) Ltd. Revision Date 22/10/2012 – Revision 1
Supplier Details:	Helifix (New Zealand) Ltd Unit B, 19 Nuttall Drive Hillsborough, Christchurch 8022 Ph. 03 376 5205 info@helifix.co.nz
Emergency Contacts:	Poisons & Hazardous Chemicals Information Centre – 0800 POISON / 0800 764 766 (24-hr) Phone 111 for Fire, Ambulance or Police
<u>Hazard Identification</u> : HSNO Classification: HSNO Group Standard: HSNO Approval Number:	6.3B, 6.4A, 6.5B, 6.9B, 9.1C Construction Products (Subsidiary) Group Standard HSR002544
Hazard Statements:	WARNING Causes mild skin irritation Causes eye irritation May cause an allergic skin reaction May cause damage to the blood and hematopoietic system through skin contact Harmful to aquatic life with long lasting effects
Date Prepared:	This coversheet prepared 5 February 2013

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# SAFETY DATA SHEET EpoxyPlus EX1 Resin Component

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1. Product identifier

Product name

EpoxyPlus EX1 Resin Component

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

Identified uses

Two component epoxy based adhesive. Resin.

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

Supplier

Helifix (New Zealand) Limited Unit B 19 Nuttall Drive Hillsborough Christchurch 8022 NEW ZEALAND Tel: 64 (0)3 376 5205 Fax: 64 (0)3 376 5206 Email: info@helifix.co.nz

## 1.4. Emergency telephone number

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### SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical HazardsNot classified.Human healthSkin Irrit. 2 - H315;Eye Irrit. 2 - H319;Skin Sens. 1 - H317EnvironmentAquatic Chronic 2 - H411Classification (1999/45/EEC)Xi;R36/38. R43. N;R51/53.

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

	2	.2.	Label	elements	
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Contains

EPOXY RESIN (Number average MW <= 700) REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN 1,6-HEXANEDIOL DIGLYCIDYLETHER

Label In Accordance With (EC) No. 1272/2008



Signal Word	Warning	
Hazard Statements		
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary Statements		
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplementary Precautionary Sta	atements	

P333+313

If skin irritation or rash occurs: Get medical advice/attention.

# **EpoxyPlus EX1 Resin Component**

Contains epoxy constituents. May produce an allergic reaction.

#### 2.3. Other hazards

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EUH205

# 3.2. Mixtures

EPOXY RESIN (Number average MV	/ <= 700 )		50-80%
CAS-No.: 25068-38-6	EC No.: 500-033-5		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		Classification (67/548/EEC) R43 Xi;R36/38 N;R51/53	
REACTION PRODUCT OF BISPHENOL F AND EPICHLORHYDRIN			10-20%
CAS-No.: 28064-14-4	EC No.: 500-006-8		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411		Classification (67/548/EEC) Xi;R36/38. N;R51/53. R43.	
			10-20%
CAS-No.: 16096-31-4	EC No.: 240-260-4		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412		Classification (67/548/EEC) Xi;R36/38. R43,R52/53.	

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 victim immediately from source of exposure. Get medical attention if any discomfort continues.

#### Ingestion

DO NOT induce vomiting. Get medical attention immediately.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water.

### Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

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

# Inhalation.

Irritation of nose, throat and airway.

### Ingestion

May cause stomach pain or vomiting.

#### Skin contact

Prolonged skin contact may cause redness and irritation. Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

### Eye contact

Irritating and may cause redness and pain.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

### SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

DO NOT use water if avoidable.

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

### Hazardous combustion products

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

### **Unusual Fire & Explosion Hazards**

No unusual fire or explosion hazards noted.

Specific hazards

In case of fire, toxic gases (CO, CO2, NOx) may be formed.

### 5.3. Advice for firefighters

#### Special Fire Fighting Procedures

No specific fire fighting procedure given.

#### Protective equipment for fire-fighters

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

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

### 6.2. Environmental precautions

Collect and dispose of spillage as indicated in section 13. Contain spillages with sand, earth or any suitable adsorbent material. Avoid discharge into water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Collect spillage in containers, seal securely and deliver for disposal according to local regulations. For waste disposal, see section 13. **<u>6.4. Reference to other sections</u>** 

For personal protection, see section 8. Collect and dispose of spillage as indicated in section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

# Keep in original container.

7.3. 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

#### 8.2. Exposure controls

#### Protective equipment



# **EpoxyPlus EX1 Resin Component**

#### Process conditions

Provide eyewash station.

### Engineering measures

No particular ventilation requirements.

# Respiratory equipment

Not relevant

### Hand protection

Wear protective gloves.

### Eye protection

Use approved safety goggles or face shield.

### Hygiene measures

Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

### **Environmental Exposure Controls**

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

	-
Appearance	Liquid
Colour	White / off-white.
Odour	Characteristic.
Solubility	Insoluble in water
Initial boiling point and boiling range	>35 760 mm Hg
Melting point (°C)	
Not applicable.	
Relative density	1.2
Vapour density (air=1)	
No information available.	
Vapour pressure	<500 Pa 50°C
Evaporation rate	
No information available.	
pH-Value, Conc. Solution	
Not applicable.	
Viscosity	
Not determined.	
Solubility Value (G/100G H2O@20°C	C)
Not applicable.	
Decomposition temperature (°C)	
Not determined.	
Odour Threshold, Lower	
Not determined.	
Odour Threshold, Upper	
Not determined.	
Flash point	>100
Auto Ignition Temperature (°C)	
Not determined.	
Flammability Limit - Lower(%)	
Not determined.	
Flammability Limit - Upper(%)	
Not determined.	
Partition Coefficient	
(N-Octanol/Water) Not determined.	
Explosive properties	
No information available	
9.2. Other information	

### SECTION 10: STABILITY AND REACTIVITY

# **EpoxyPlus EX1 Resin Component**

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

## 10.3. Possibility of hazardous reactions

Not determined. Hazardous Polymerisation Not relevant 10.4. Conditions to avoid

Avoid contact with acids and alkalis. **10.5. Incompatible materials** 

Materials To Avoid Strong acids. Amines. Amides. 10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

Acute toxicity: Acute Toxicity (Oral LD50) 11400 mg/kg Rat

1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4)

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

#### Ecological information on ingredients.

#### EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)

### Acute Toxicity - Fish

LC50 96 hours 2 mg/l Onchorhynchus mykiss (Rainbow trout)

### Acute Toxicity - Aquatic Invertebrates

EC50 48 hours 1.8 mg/l Daphnia magna

### Acute Toxicity - Aquatic Plants

EC50 72 hours 11 mg/l Freshwater algae

1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4)

### Acute Toxicity - Fish

LC50 96 hours 30 mg/l Onchorhynchus mykiss (Rainbow trout)

# 12.2. Persistence and degradability

**Degradability** The product is not biodegradable.

### 12.3. Bioaccumulative potential

# Bioaccumulative potential No data available on bioaccumulation. Partition coefficient Not determined.

# 12.4. Mobility in soil

### Mobility:

The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

# 12.5. Results of PBT and vPvB assessment

# **EpoxyPlus EX1 Resin Component**

This product does not contain any PBT or vPvB substances.

### 12.6. Other adverse effects

# SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1. Waste treatment methods

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Contact specialist disposal companies.

# SECTION 14: TRANSPORT INFORMATION

### 14.1. UN number

UN No. (ADR/RID/ADN)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

14.2. UN proper shipping name

**Proper Shipping Name** 

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

14.3.	Transpo	ort haza	rd class	(es)

ADR/RID/ADN Class	9
ADR/RID/ADN Class	Class 9: Miscellaneous dangerous substances and articles.
ADR Label No.	9
IMDG Class	9
ICAO Class/Division	9
Transport Labels	



# 14.4. Packing group

ADR/RID/ADN Packing group	Ш
IMDG Packing group	Ш
ICAO Packing group	Ш

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



## 14.6. Special precautions for user

EMS	F-A, S-F
Emergency Action Code	•3Z
Hazard No. (ADR)	90
Tunnel Restriction Code	(E)

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

### SECTION 15: REGULATORY INFORMATION

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

### **Guidance Notes**

Workplace Exposure Limits EH40.

### **EU Legislation**

Police and Fire Brigade

**Poisons Information Centre** 

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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. 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, including amendments.

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION			
Revision Comments			
NOTE: Lines within the margin indicate significant changes from the previous revision.			
Revision Date	22/10/2012		
Revision	1		
Risk Phrases In Full			
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
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.		
Hazard Statements In Full			
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Emergency Contacts			
Helifix (New Zealand) Limited			
. , ,	nd) Limited - Emergency Number 64 (0)3 376 5205		

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0800 764 766

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