



## SAFETY DATA SHEET

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### RT111 Resin

Revision 4  
Revision date 12-May-2009

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** RT111 Resin  
**Company** ResinTech Limited  
Horcott, Fairford,  
Gloucestershire GL7 4BX  
info@resintech.co.uk  
**Telephone** +44 (0)1285 712755  
**Fax** +44 (0)1285 712999  
**Emergency telephone number** +44 (0)1285 712755

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
Bisphenol A-(epichlorhydrin) (reaction product)	80-90%	25068-38-6	500-033-5	Xi; R36/37/38 R43 N; R51/53
Epoxy resin Bisphenol F	1-10%	28064-14-4	500-033-5	Xi; R36/38-43 N; R51/53

#### 3. HAZARDS IDENTIFICATION

**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.

#### 4. FIRST AID MEASURES

**Skin contact** Irritating to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Eye contact** Irritating to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

**Inhalation** Irritating to respiratory system. Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention.

**Ingestion** Ingestion may cause nausea and vomiting. Seek medical attention if irritation or symptoms persist. DO NOT INDUCE VOMITING.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Carbon oxides.

**Fire hazards** Burning produces irritating, toxic and obnoxious fumes.

**Protective equipment** Wear suitable respiratory equipment when necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions** Ensure adequate ventilation of the working area. Wear suitable protective equipment.

**Environmental precautions** Do not allow product to enter drains. Prevent further spillage if safe.

**Clean up methods** Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

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## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.
<b>Storage</b>	Keep in a cool, dry, well ventilated area. Keep containers tightly closed. Store in correctly labelled containers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Respiratory protection</b>	Wear: Suitable respiratory equipment.
<b>Hand protection</b>	Chemical resistant gloves (PVC)
<b>Eye protection</b>	Approved safety goggles.
<b>Protective equipment</b>	Wear chemical protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Viscous liquid.
<b>Colour</b>	Off white.
<b>Odour</b>	Characteristic.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
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## 11. TOXICOLOGICAL INFORMATION

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Dispose of in compliance with all local and national regulations.
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## 14. TRANSPORT INFORMATION

### ADR/RID

UN 3082	Packing group III
Class 9	Hazard ID 90
<b>Proper Shipping Name</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S, (bisphenol A).	

### IMDG

UN 3082	Packing group III
Class 9	Marine pollutant .
EmS Code F-A S-F	

### IATA

UN 3082	Packing group III
Class 9	Subsidiary risk -
Packing Instruction 914 (Cargo)	Maximum quantity 450 L
Packing Instruction 914 (Passenger)	Maximum quantity 450 L

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## 15. REGULATORY INFORMATION

**Labelling** The product is classified in accordance with 67/548/EEC.

**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.  
S37 - Wear suitable gloves.

## 16. OTHER INFORMATION

**Text of risk phrases in Section 2** R36/37/38 - Irritating to eyes, respiratory system and skin.  
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.

**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.

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### RT111 Hardener

Revision 4  
Revision date 12-May-2009

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

**Product name** RT111 Hardener  
**Company** ResinTech Limited  
Horcott, Fairford,  
Gloucestershire GL7 4BX  
info@resintech.co.uk  
**Telephone** +44 (0)1285 712755  
**Fax** +44 (0)1285 712999  
**Emergency telephone number** +44 (0)1285 712755

#### 2. COMPOSITION / INFORMATION ON INGREDIENTS

##### Hazardous ingredients

	Conc.	CAS	EINECS	Symbols/Risk phrases
N-aminoethylpiperazine	10-20%	140-31-8	205-411-0	Xn; R21/22 C; R34 R43 R52/53
Nonylphenol	60-70%	25154-52-3	246-672-0	Repr Cat 3; R62 Repr Cat 3; R62 Xn; R22 C; R34 N; R50/53
Tetraethylenepentamine	0-0.5%	112-57-2	203-986-2	Xn; R21/22 C; R34 R43 N; R51/53
TOFA Reaction product with TEPA	10-20%	68953-36-6	273-201-6	Xi;R43

#### 3. HAZARDS IDENTIFICATION

**Main hazards** Harmful if swallowed. Causes burns. May cause sensitisation by skin contact. Very 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.

#### 4. FIRST AID MEASURES

**Skin contact** Causes burns. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

**Eye contact** Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention.

**Inhalation** Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.

**Ingestion** Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media** Use as appropriate: carbon dioxide (CO2), dry chemical, foam.

**Fire hazards** Corrosive. Burning produces irritating, toxic and obnoxious fumes.

**Protective equipment** Wear suitable respiratory equipment when necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
<b>Environmental precautions</b>	Do not allow product to enter drains. Prevent further spillage if safe.
<b>Clean up methods</b>	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
<b>Storage</b>	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering measures</b>	Ensure adequate ventilation of the working area.
<b>Respiratory protection</b>	Wear: Wear suitable respiratory equipment when necessary.
<b>Hand protection</b>	Chemical resistant gloves (PVC)
<b>Eye protection</b>	Approved safety goggles.
<b>Protective equipment</b>	Wear chemical protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Description</b>	Liquid.
<b>Colour</b>	Amber.
<b>Odour</b>	Characteristic.

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal conditions.
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## 11. TOXICOLOGICAL INFORMATION

<b>Corrosivity</b>	Causes burns.
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## 12. ECOLOGICAL INFORMATION

## 13. DISPOSAL CONSIDERATIONS

<b>General information</b>	Dispose of in compliance with all local and national regulations.
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## 14. TRANSPORT INFORMATION

### ADR/RID

UN 1760	Packing group III
Class 8	Hazard ID 80
Proper Shipping Name (nonylphenol,N-aminoethylpiperazine).	
CORROSIVE LIQUID, N.O.S,	

### IMDG

UN 1760	Packing group III
Class 8	Marine pollutant YES
EmS Code F-A S-B	

### IATA

UN 1760	Packing group III
Class 8	Subsidiary risk -
Packing Instruction 820 (Cargo)	Maximum quantity 60 L
Packing Instruction 818 (Passenger)	Maximum quantity 5 L

## 15. REGULATORY INFORMATION

**Labelling** The product is classified in accordance with 67/548/EEC.

**Symbols** C - Corrosive; N - Dangerous for the environment



**Risk phrases**

- R22 - Harmful if swallowed.
- R34 - Causes burns.
- R43 - May cause sensitisation by skin contact.
- R50/53 - Very toxic 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.

**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 [].
- 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).

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## 16. OTHER INFORMATION

### Text of risk phrases in Section 2

R21/22 - Harmful in contact with skin and if swallowed.

R22 - Harmful if swallowed.

R34 - Causes burns.

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.

### Further information

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